

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 30, 2004, 14:10:23 ; Search time 54 Seconds
(without alignments)
6502.222 Million cell updates/sec

Title: US-09-903-063-5
Perfect score: 1242
Sequence: 1 MASPPSDGFSFVRKVGYLK.....SEDLASVASFQKPEDRQ 1242

Scoring table: OEI60
Gapop 60.0 , Gapext 60.0

Searched: 1166195 seqs, 282705291 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1166195

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
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4	1242	100.0	1242	9	US-09-903-216-5
5	1242	100.0	1242	9	US-09-903-199-5
6	1242	100.0	1242	9	US-09-903-023-5
7	1242	100.0	1242	10	US-09-436-184-5
8	1242	100.0	1242	13	US-10-085-027-1
9	1242	100.0	1242	16	US-10-694-874-1
10	1242	100.0	1242	15	US-10-334-143-10
11	119	9.6	1231	16	US-10-694-874-3
12	111	8.9	113	10	US-09-922-226-123
13	111	8.9	114	12	US-09-731-660A-2
14	105	8.5	105	14	US-10-192-381-5
15	19	1.5	19	9	US-09-135-238B-17

16	19	1.5	19	9	US-09-135-238B-21	Sequence 21, Appl
17	16	1.3	159	13	US-10-085-027-5	Sequence 5, Appl
18	16	1.3	1139	12	US-10-087-192-705	Sequence 705, App
19	16	1.3	1278	12	US-10-087-192-708	Sequence 708, App
20	16	1.3	1321	16	US-10-694-874-4	Sequence 4, Appl
21	16	1.3	1324	16	US-10-694-874-2	Sequence 2, Appl
22	15	1.2	15	13	US-10-085-027-2	Sequence 3, Appl
23	15	1.2	15	13	US-10-085-027-3	Sequence 4, Appl
24	15	1.2	15	14	US-10-085-027-4	Sequence 382, App
25	15	1.2	15	13	US-10-694-874-5	Sequence 5, Appl
26	15	1.2	15	16	US-10-694-874-6	Sequence 6, Appl
27	15	1.2	15	16	US-10-694-874-7	Sequence 7, Appl
28	15	1.2	15	16	US-10-694-874-8	Sequence 8, Appl
29	13	1.0	13	16	US-10-694-874-11	Sequence 9, Appl
30	12	1.0	15	16	US-10-694-874-9	Sequence 10, Appl
31	12	1.0	15	16	US-10-694-874-10	Sequence 11, Appl
32	12	1.0	18	12	US-09-811-870-1	Sequence 1, Appl
33	12	1.0	18	12	US-10-355-975-32	Sequence 32, Appl
34	12	1.0	18	14	US-10-424-599-267478	Sequence 267478, Appl
35	12	1.0	58	12	US-09-572-404B-1768	Sequence 1768, Ap
36	10	0.8	10	10	US-09-572-404B-2680	Sequence 2680, Ap
37	10	0.8	10	10	US-09-572-404B-3396	Sequence 3396, Ap
38	10	0.8	10	10	US-09-572-404B-3962	Sequence 3962, Ap
39	10	0.8	10	10	US-09-572-404B-3963	Sequence 3963, Ap
40	10	0.8	10	10	US-09-572-404B-3964	Sequence 3964, Ap
41	10	0.8	10	10	US-09-572-404B-3965	Sequence 3965, Ap
42	10	0.8	10	10	US-09-572-404B-3966	Sequence 3966, Ap
43	10	0.8	10	10	US-09-572-404B-3967	Sequence 3967, Ap
44	10	0.8	10	10	US-09-572-404B-3968	Sequence 3968, Ap
45	10	0.8	10	10	US-09-572-404B-3969	Sequence 3969, Ap

ALIGNMENTS

RESULT 1
US-09-903-248-5
Sequence 5, Application US/09903248
Patent No. US20020102263A1
GENERAL INFORMATION:
APPLICANT: Wanda, Jack R.
APPLICANT: de la Monte, Suzanne M.
APPLICANT: Ince, Nedim
APPLICANT: Carlson, Rolf I.
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
FILE REFERENCE: 21486-032 DIVS
CURRENT APPLICATION NUMBER: US/09/903,248
PRIOR FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: 09/436,184
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 1242
TYPE: PRT
ORGANISM: Homo sapiens
US-09-903-248-5

Query Match	Best Local Similarity	Score 1242;	DB 9;	Length 1242;	Pred. No. 0;	Mismatches 0;	Indels 0;	Gaps 0;
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RESULT 2
US-09-859-604-5
; Sequence 5; Application US/09859604
; Patent No. US20020110559A1
; GENERAL INFORMATION:
; APPLICANT: Mande, Jack R.
; APPLICANT: de la Monte, Suzanne M
; APPLICANT: Deutch, Alan H
; APPLICANT: Chabarti, Hossein A
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 CIP
; CURRENT APPLICATION NUMBER: US/09/859,604
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-859-604-5
Query Match 100.0%; Score 1242; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Sequence 5, Application US/09903063
; Patent No. US20020114810A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV3
; CURRENT APPLICATION NUMBER: US/09/903,063
; PRIOR FILING DATE: 2001-10-11
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentia Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-063-5
Query Match 100.0%; Score 1242; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Page 4

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DB 1201 PPPPPHPPHPLGSGSSSTRSSRSDLSAYASISFOKOPEDRQ 1242

RESULT 4
US-09-903-216-5
; Sequence 5, Application US/09903216
; Patent No. US2002011481A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV2
; CURRENT FILING DATE: 2001-07-11
; PRIOR FILING DATE: 1999-11-08
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-216-5

Query Match 100.0%; Score 1242; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGFSDVRKVGYLRRKPKSNHKKRPFVLRASAEAGPARLEYENKMKRHKSAP 60
DB 1 MASPPESDGFSDVRKVGYLRRKPKSNHKKRPFVLRASAEAGPARLEYENKMKRHKSAP 60
QY 61 KRSTLESCFNINRKADSKNHLVALYTRDEHFAIADSEADSDSWOALQOLNRAKH 120
DB 61 KRSTLESCFNINRKADSKNHLVALYTRDEHFAIADSEADSDSWOALQOLNRAKH 120
QY 121 HDGAALGAGGGGSGSGSSGLGEAGEDLSYGDVPPGPAFKEVWQVILKPKGLQTKLI 180
DB 121 HDGAALGAGGGGSGSGSSGLGEAGEDLSYGDVPPGPAFKEVWQVILKPKGLQTKLI 180
QY 181 GYTRCLTSKTSISFYKLNSEAAVVLQLMNIRCGHSENFIEYGRSAVTPGPEFMQV 240
DB 181 GYTRCLTSKTSISFYKLNSEAAVVLQLMNIRCGHSENFIEYGRSAVTPGPEFMQV 240
QY 241 DDSVVAQNWHETILBAMRMSDEPRRKSOGSSNSCNPIISVPLARHLLNPPSOVGLT 300
DB 241 DDSVVAQNWHETILBAMRMSDEPRRKSOGSSNSCNPIISVPLARHLLNPPSOVGLT 300
QY 301 RRSRTSTIATSPAMVGGKPGSFVRASSDGEGTMSRPASVDSGSPVSTNRTHAHR 360
DB 301 RRSRTSTIATSPAMVGGKPGSFVRASSDGEGTMSRPASVDSGSPVSTNRTHAHR 360
QY 361 GSARLHPPLNHSRSPMPARCSPATSPVLSASSSTGSGHSTGCLPFRSSASVSGSP 420
DB 361 GSARLHPPLNHSRSPMPARCSPATSPVLSASSSTGSGHSTGCLPFRSSASVSGSP 420
QY 421 SDGGTSSDEYSSSPDFRSGFRSVTPDSLGTTPARAGEELSNITCMGKGPSLTIPN 480
DB 421 SDGGTSSDEYSSSPDFRSGFRSVTPDSLGTTPARAGEELSNITCMGKGPSLTIPN 480
QY 481 GHYILSRGNGHRCPTGTLGTPALAGDEAASADLNNRFRKTHSAGTSPITHTKP 540
DB 481 GHYILSRGNGHRCPTGTLGTPALAGDEAASADLNNRFRKTHSAGTSPITHTKP 540
QY 541 SSSVASIIEYTEMPPAYPPGGSGGLPGRHSAFVPTRSYBEGLEMHPLERRGHR 600
DB 541 SSSVASIIEYTEMPPAYPPGGSGGLPGRHSAFVPTRSYBEGLEMHPLERRGHR 600

QY 601 PDSSTLHTDDGYMPPSPGVAPYPSGRKSGDYMPPSPKSVASAPQIINPIRRHQRVDPN 660
DB 601 PDSSTLHTDDGYMPPSPGVAPYPSGRKSGDYMPPSPKSVASAPQIINPIRRHQRVDPN 660
QY 661 GYMMMSPSGGCSPDIDGGPSSSSSSSNAVPSTGYGLKMTNGVGHSHVLPHPKPVES 720
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QY 721 SGKLLPCTGDYMMSPVSDNTSSPSCYCYPEPPOKHPVLSYSLPRSFHTQRPGE 780
DB 721 SGKLLPCTGDYMMSPVSDNTSSPSCYCYPEPPOKHPVLSYSLPRSFHTQRPGE 780
QY 781 EGGARHQLRLSTSSGRLLYAATADSSSTSDSLGGGCGARLEPPLPHHOVLOPH 840
DB 781 EGGARHQLRLSTSSGRLLYAATADSSSTSDSLGGGCGARLEPPLPHHOVLOPH 840
QY 841 LPRKVDTAQNTSRLAPTRLSLGPKASTLPRAREQQQQOPLHPPEPKSGEYVNI 900
DB 841 LPRKVDTAQNTSRLAPTRLSLGPKASTLPRAREQQQQOPLHPPEPKSGEYVNI 900
QY 901 FGSDGGLSGEVAHFSSPSVRCPSQLQAPREBEETGTEYMKMDLGRRAAQESTGV 960
DB 901 FGSDGGLSGEVAHFSSPSVRCPSQLQAPREBEETGTEYMKMDLGRRAAQESTGV 960
QY 961 EWRGLAPAPGAASICRPTRAVPSRQDYMOMSCFROSYYDTPAPVSYADMRTGIA 1020
DB 961 EWRGLAPAPGAASICRPTRAVPSRQDYMOMSCFROSYYDTPAPVSYADMRTGIA 1020
QY 1021 AEEVSLPRATMAAASSSSAASAPTPGQCAELAAHSSLLGGPQGGMSAFTRVNLSPN 1080
DB 1021 AEEVSLPRATMAAASSSSAASAPTPGQCAELAAHSSLLGGPQGGMSAFTRVNLSPN 1080
QY 1081 RNOSAVIYADPQCCRRHSSSETSPBATVGVTPVGAANAICGGGSSSEEDVR 1140
DB 1081 RNOSAVIYADPQCCRRHSSSETSPBATVGVTPVGAANAICGGGSSSEEDVR 1140
QY 1141 HSSASFENWLRGELGAPKPEPAKLCGAAGLENGLNYIDLVYDFQOCQECTPEQ 1200
DB 1141 HSSASFENWLRGELGAPKPEPAKLCGAAGLENGLNYIDLVYDFQOCQECTPEQ 1200
QY 1201 PPPPPHPPHPLGSGSSSTRSSRSDLSAYASISFOKOPEDRQ 1242
DB 1201 PPPPPHPPHPLGSGSSSTRSSRSDLSAYASISFOKOPEDRQ 1242

RESULT 5
US-09-903-199-5
; Sequence 5, Application US/09903199
; Patent No. US20020122802A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV4
; CURRENT FILING DATE: 2001-07-11
; PRIOR FILING DATE: 1999-11-08
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-199-5

Query Match 100.0%; Score 1242; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGFSDVRKVGYLRRKPKSNHKKRPFVLRASAEAGPARLEYENKMKRHKSAP 60

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Db 1 MASPPESDGFSDVRKVGILRKPKSMHRRFFVLRASAEAGPARLEYENEXKMRHKSAP 60
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Db 61 KRSLPLESCFNINRKADSKNKLVALYTRDEHFAIADSEADQSWYQALLQILNRKAGH 120
Qy 121 HDGAALGAGGGGSGSSGLGEAGEDLSYGDVPPGPAFKEWQVILKPKGLGOTKXLI 180
Db 121 HDGAALGAGGGGSGSSGLGEAGEDLSYGDVPPGPAFKEWQVILKPKGLGOTKXLI 180
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Db 181 GIYRLCLTSKTIISFYKLNSEAAVVLQIMNIRCGHSENFPIEVGRSAVTGPEFMQV 240
Qy 241 DDSVVAQNMHETILEAMRAMSDEFPRRSKQSSNSNPISVPLRRHILNPPSQVGLT 300
Db 241 DDSVVAQNMHETILEAMRAMSDEFPRRSKQSSNSNPISVPLRRHILNPPSQVGLT 300
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Db 301 RRSRTESITATSPASWVGKPGSFVRASDGEGTMRPSPVSDGSPSTNRTHAHRH 360
Qy 361 GSARLHPPLNHSRSLPMPASRCSPSATS PVSLSSTSGHGSTSDCLFPRRSASVSGSP 420
Db 361 GSARLHPPLNHSRSLPMPASRCSPSATS PVSLSSTSGHGSTSDCLFPRRSASVSGSP 420
Qy 421 SDGCFISSDEYGSFCDPFRSSFRSVTPDLSGHTPPARGEEELSNYICMGKGPSLTAPN 480
Db 421 SDGCFISSDEYGSFCDPFRSSFRSVTPDLSGHTPPARGEEELSNYICMGKGPSLTAPN 480
Qy 481 GHYILSRGNGHRCPTGIGTSPALAGDEAASADLNRFRKRTSAGTSPITTHOKTP 540
Db 481 GHYILSRGNGHRCPTGIGTSPALAGDEAASADLNRFRKRTSAGTSPITTHOKTP 540
Qy 541 SOSVSVSIEEYTEMMPAYPPRGSGSGRLPGHRSAVPPRISYEBELNHPLERRGHR 600
Db 541 SOSVSVSIEEYTEMMPAYPPRGSGSGRLPGHRSAVPPRISYEBELNHPLERRGHR 600
Qy 601 PDSSTLHTDDGYMPSPGVAPVPSGKRGSGDYMPMSPKSASAPQIINPIRRHPQVDN 660
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Db 661 GYMMMSBGGCSPDYGSGSSSSSSNAVPGTSYGLMTNGVGHSHVLPHPKPPVS 720
Qy 721 SGGLLPCTGDYMMSPVGDSSNTSSPEDCYGPEDPQHKVLSYSLPRSFKHTRPGEP 780
Db 721 SGGLLPCTGDYMMSPVGDSSNTSSPEDCYGPEDPQHKVLSYSLPRSFKHTRPGEP 780
Qy 781 EBGARHQLRLSTSSGGLLYAATADSSSTSSDLSGGYCGARLPSLPHPHQLQPH 840
Db 781 EBGARHQLRLSTSSGGLLYAATADSSSTSSDLSGGYCGARLPSLPHPHQLQPH 840
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Qy 901 FGSDQSGYLSGPAFHSSPSVRCPSQLQPARREETTEBYMMDLQPGRAAQSSTGV 960
Db 901 FGSDQSGYLSGPAFHSSPSVRCPSQLQPARREETTEBYMMDLQPGRAAQSSTGV 960
Qy 961 EMGRIGPAPGAASICPTRAVPSRGDYMTMMSCPROS YVDTSPAAPSYADMGTGA 1020
Db 961 EMGRIGPAPGAASICPTRAVPSRGDYMTMMSCPROS YVDTSPAAPSYADMGTGA 1020
Qy 1021 AEEVSLPRATMAAASSSASASPTGQGAELAAHSLILGPGCGGMSAFTRVLSFN 1080
Db 1021 AEEVSLPRATMAAASSSASASPTGQGAELAAHSLILGPGCGGMSAFTRVLSFN 1080
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Db 1081 RNQSAKTIADPQCCRRRHSSETPSSTRVGNVTPFGAGAAVGGGSSSSSEDVYR 1140
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Db 1081 RNQSAKTIADPQCCRRRHSSETPSSTRVGNVTPFGAGAAVGGGSSSSSEDVYR 1140
Qy 1141 HSSASFENVMLRPGELGAPKEPAKLCGAAGLENGLNITDLDVKDFKQCPQECTPEPQ 1200
Db 1141 HSSASFENVMLRPGELGAPKEPAKLCGAAGLENGLNITDLDVKDFKQCPQECTPEPQ 1200
Qy 1201 PPPPPPPHQPILGSGESSSTRSSSDLSAVASISFQKPEPQ 1242
Db 1201 PPPPPPPHQPILGSGESSSTRSSSDLSAVASISFQKPEPQ 1242

RESULT 6
US-09-903-023-5
Sequence 5, Application US/09903023
Patent No. US20020146421A1
GENERAL INFORMATION:
APPLICANT: Wands, Jack R.
APPLICANT: de la Monte, Suzanne M.
APPLICANT: Ince, Nedim
APPLICANT: Carlson, Rolf I.
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
FILE REFERENCE: 21486-032 Div1
CURRENT FILING DATE: US/09/903, 023
PRIOR FILING DATE: 2001-10-11
PRIOR FILING DATE: 09/436,184
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 1242
TYPE: PRT
ORGANISM: Homo sapiens
US-09-903-023-5

Query Match 100.0%; Score 1242; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASPPESDGFSDVRKVGILRKPKSMHRRFFVLRASAEAGPARLEYENEXKMRHKSAP 60
Db 1 MASPPESDGFSDVRKVGILRKPKSMHRRFFVLRASAEAGPARLEYENEXKMRHKSAP 60
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Db 61 KRSLPLESCFNINRKADSKNKLVALYTRDEHFAIADSEADQSWYQALLQILNRKAGH 120
Qy 121 HDGAALGAGGGGSGSSGLGEAGEDLSYGDVPPGPAFKEWQVILKPKGLGOTKXLI 180
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Db 181 GIYRLCLTSKTIISFYKLNSEAAVVLQIMNIRCGHSENFPIEVGRSAVTGPEFMQV 240
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Db 241 DDSVVAQNMHETILEAMRAMSDEFPRRSKQSSNSNPISVPLRRHILNPPSQVGLT 300
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Db 301 RRSRTESITATSPASWVGKPGSFVRASDGEGTMRPSPVSDGSPSTNRTHAHRH 360
Qy 361 GSARLHPPLNHSRSLPMPASRCSPSATS PVSLSSTSGHGSTSDCLFPRRSASVSGSP 420
Db 361 GSARLHPPLNHSRSLPMPASRCSPSATS PVSLSSTSGHGSTSDCLFPRRSASVSGSP 420
Qy 421 SDGCFISSDEYGSFCDPFRSSFRSVTPDLSGHTPPARGEEELSNYICMGKGPSLTAPN 480
Db 421 SDGCFISSDEYGSFCDPFRSSFRSVTPDLSGHTPPARGEEELSNYICMGKGPSLTAPN 480
Qy 481 GHYILSRGNGHRCPTGIGTSPALAGDEAASADLNRFRKRTSAGTSPITTHOKTP 540
Db 481 GHYILSRGNGHRCPTGIGTSPALAGDEAASADLNRFRKRTSAGTSPITTHOKTP 540
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QY 541 SOSVASTIEYTEMMPAYPPGGSGGRLPGHRHSAFVPTREYEGLEMPLERRGGHHR 600
 DB 541 SOSVASTIEYTEMMPAYPPGGSGGRLPGHRHSAFVPTREYEGLEMPLERRGGHHR 600
 QY 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGSDYMPSPKSVSAPOQIINPIRRHPQVDPN 660
 DB 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGSDYMPSPKSVSAPOQIINPIRRHPQVDPN 660
 QY 661 GYMMMSPPGGGSPDTCGGPSSSSSSNAVPSGTGYKLMTVGQHSHVLPHPKPYVES 720
 DB 661 GYMMMSPPGGGSPDTCGGPSSSSSSNAVPSGTGYKLMTVGQHSHVLPHPKPYVES 720
 QY 721 SGGKLLPCTGDYMMNSPVGDNTSSPSDCYYPEDPOHKPVLSTYSLPRSFKATQRPGE 780
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 DB 781 BEGAHQHRLSTSSGRLYAATAADSSSTSSDLSGGYCGARLESLSLPHHQUVOPH 840
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 DB 841 LPRKVDTAQTNRLARPTRLSLGDPKASTLPRAREQOQQOQPLHPPEPKSPGEVYNI 900
 QY 901 FGSDOSGYLSGPVAFHSSPSVRCPSQLOPARREETGTIEYMKDLPGRRAANQESTGV 960
 DB 901 FGSDOSGYLSGPVAFHSSPSVRCPSQLOPARREETGTIEYMKDLPGRRAANQESTGV 960
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 DB 961 EMGRGPAPGAASICRPTRAVPSRSGDYMTQMSCPQSYVDTSPAPVSYADMRTGIA 1020
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 DB 1021 AEEVSLPRATMAAASSSSAASAPTCGPGAAELAAHSSLLGPGQPGGMSAFTRVNLSPN 1080
 QY 1081 RNOSAKVIRADPOGCRHSESTFSTSATRVGNTPVFGAAGVGGGSSSEDEVYR 1140
 DB 1081 RNOSAKVIRADPOGCRHSESTFSTSATRVGNTPVFGAAGVGGGSSSEDEVYR 1140
 QY 1141 HSSASFENVMLRPGELGAPKXPAKLCGAAGLENGLYIDLIVKDFKQCPQCTEPQ 1200
 DB 1141 HSSASFENVMLRPGELGAPKXPAKLCGAAGLENGLYIDLIVKDFKQCPQCTEPQ 1200
 QY 1201 PPPPPHQPLOGSGESSSTRSSSEDLASVASTISFOKQPEDRQ 1242
 DB 1201 PPPPPHQPLOGSGESSSTRSSSEDLASVASTISFOKQPEDRQ 1242

RESULT 7

US-09-436-184-5
 ; Sequence 5, Application US/09436184
 ; Publication No. US20030031670A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wands, Jack R.
 ; APPLICANT: de la Monte, Suzanne M.
 ; APPLICANT: Ince, Nedim
 ; APPLICANT: Carlson, Rolf I.
 ; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
 ; FILE REFERENCE: R. I. Hosp. - Malignant Neoplasms
 ; CURRENT APPLICATION NUMBER: US/09/436,184
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5
 ; LENGTH: 1242
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-436-184-5

Query Match 100.0%; Score 1242; DB 10; Length 1242;
 Best Local Similarity 100.0%; Pred. No. 0;

Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MASPPESDGFSPVRKGYLRKPKSMHRRFFVLRASDAQPARLEYENEXKMRKSSAP 60
 DB 1 MASPPESDGFSPVRKGYLRKPKSMHRRFFVLRASDAQPARLEYENEXKMRKSSAP 60
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 DB 61 KRSIPLESCEFNINKKADSKNKLVALYTRDEHFAIADSEADSWYQALLQHNRAKH 120
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 QY 541 SOSVASTIEYTEMMPAYPPGGSGGRLPGHRHSAFVPTREYEGLEMPLERRGGHHR 600
 DB 541 SOSVASTIEYTEMMPAYPPGGSGGRLPGHRHSAFVPTREYEGLEMPLERRGGHHR 600
 QY 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGSDYMPSPKSVSAPOQIINPIRRHPQVDPN 660
 DB 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGSDYMPSPKSVSAPOQIINPIRRHPQVDPN 660
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 DB 721 SGGKLLPCTGDYMMNSPVGDNTSSPSDCYYPEDPOHKPVLSTYSLPRSFKATQRPGE 780
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 DB 781 BEGAHQHRLSTSSGRLYAATAADSSSTSSDLSGGYCGARLESLSLPHHQUVOPH 840
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 DB 841 LPRKVDTAQTNRLARPTRLSLGDPKASTLPRAREQOQQOQPLHPPEPKSPGEVYNI 900
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DB 1081 RNQSAKYIRADPOGCRHRHSEFTSSTPSATRVGNTVPFGAGAAVGGGGSSSSSEDEVKR 1140
QY 1141 HSSASFENVMLRPGELGGAPEPAKLGAAGLENGLNTYIDLVLVDKFOCPOECTPEPQ 1200
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QY 1201 PPPPPHQPPLGSGESSSTRSSSEDLGAYASISFOKQPEDRQ 1242
DB 1201 PPPPPHQPPLGSGESSSTRSSSEDLGAYASISFOKQPEDRQ 1242

RESULT 8
US-10-085-027-1
; Sequence 1, Application US/10085027
; Publication No. US20020132759A1
; GENERAL INFORMATION:
; APPLICANT: YAZAKI, YOSHIO
; APPLICANT: ASANO, TOMOICHIRO
; APPLICANT: KUBO, HIDEO
; APPLICANT: KANDA, AKIRA
; TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE
; FILE REFERENCE: 4695-0019-0PCT
; CURRENT APPLICATION NUMBER: US/10/085,027
; PRIOR FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: 09/508,691
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: PCT/JP98/04293
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP97-09-29
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-085-027-1

Query Match 100.0%; Score 1242; DB 13; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGGSDYRKVGYLKKPKYSMKRPFVLRPAESAGPALLEYENKKWRHKSAP 60
DB 1 MASPPESDGGSDYRKVGYLKKPKYSMKRPFVLRPAESAGPALLEYENKKWRHKSAP 60
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DB 61 KRSLPESCFNINKRADSKKXKHLVALYTRDEHFAIADSEADSDMYQALLQHNRAKH 120
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DB 121 HDGAALAGAGGGGSGSGSSGLGEAGEEDLSYGDVPPGPAKEVWQYILKPKGLGQTKNLI 180
QY 181 GYRLCLTSKTIISFVKLNSBAVAVMQMWIRRCGSENEFFLEVERSAVTGGEFWMQV 240
DB 181 GYRLCLTSKTIISFVKLNSBAVAVMQMWIRRCGSENEFFLEVERSAVTGGEFWMQV 240
QY 241 DSDVVAQNMETILLEAMRAMSDEFRRPSKSSQSSSNCPISVPLRSHHLNPPPSQVGLT 300
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DB 301 RRSRTSITATSPASVWGKPGSFVRASDGECTMSRPASVDGVSVSSTRTTAHRR 360
QY 361 GSARLHPPLNHSRSPMPASRCSPSATSPVSLSSSSSTSGHSTDCLPFRSSASVSGSP 420
DB 361 GSARLHPPLNHSRSPMPASRCSPSATSPVSLSSSSSTSGHSTDCLPFRSSASVSGSP 420

QY 421 SDGFISSDEYCSSPCDRSSFRSTPDSLHTPPARGEELSNITCMGKGSTLTAPN 480
DB 421 SDGFISSDEYCSSPCDRSSFRSTPDSLHTPPARGEELSNITCMGKGSTLTAPN 480
QY 481 GHYILSRGANGHRCPTGJGLTSPALADEAASAADLNRERKXTHSAGTPTTHOKTP 540
DB 481 GHYILSRGANGHRCPTGJGLTSPALADEAASAADLNRERKXTHSAGTPTTHOKTP 540
QY 541 SSSVVAISIEYTEMMFAPVPGGGGGGLPGHRSAPVPTASYPBEGLEMPLEFRGGHR 600
DB 541 SSSVVAISIEYTEMMFAPVPGGGGGGLPGHRSAPVPTASYPBEGLEMPLEFRGGHR 600
QY 601 PDSSTLHPDDGYMPPSPGAVPVSGRKGSDYMPSPKSVAPQOIIINPIRRHQVDPN 660
DB 601 PDSSTLHPDDGYMPPSPGAVPVSGRKGSDYMPSPKSVAPQOIIINPIRRHQVDPN 660
QY 661 GYMMSPGGCGSPDIGGPPSSSSSSNAVPSTGYKLMWNGVGHSHVLPARXPVES 720
DB 661 GYMMSPGGCGSPDIGGPPSSSSSSNAVPSTGYKLMWNGVGHSHVLPARXPVES 720
QY 721 SGGKLLPCTGDMNMSPVGDSNTSPSDCYGPEDPQHKPVLVYSLPRSFKTORPEP 780
DB 721 SGGKLLPCTGDMNMSPVGDSNTSPSDCYGPEDPQHKPVLVYSLPRSFKTORPEP 780
QY 781 BEGARHQLRLSTSGRLLYAATADSSSTSDSLGGGYCGARLEBSLPHPHQVLOPH 840
DB 781 BEGARHQLRLSTSGRLLYAATADSSSTSDSLGGGYCGARLEBSLPHPHQVLOPH 840
QY 841 LPRKVTDAQNTSRAPTRLSIDDPKASTLPARBEQOQOQOPLHPEPSPBEVYNTE 900
DB 841 LPRKVTDAQNTSRAPTRLSIDDPKASTLPARBEQOQOQOPLHPEPSPBEVYNTE 900
QY 901 FGSDQGYLSGPVAFHSSSPVRCPSQLOPAREEETGEEMKMDLGGRAAQAQESTGV 960
DB 901 FGSDQGYLSGPVAFHSSSPVRCPSQLOPAREEETGEEMKMDLGGRAAQAQESTGV 960
QY 961 EMGRIGPAPPGAASCRPTRAVPSSRGDYMOMQSCPSQSVYDPSPAFVYADMRGIA 1020
DB 961 EMGRIGPAPPGAASCRPTRAVPSSRGDYMOMQSCPSQSVYDPSPAFVYADMRGIA 1020
QY 1021 AEEVSLPRATMAAASSSSAASPTGPGAELAHAHSSILGGPGGMSAFTVNTSPN 1080
DB 1021 AEEVSLPRATMAAASSSSAASPTGPGAELAHAHSSILGGPGGMSAFTVNTSPN 1080
QY 1081 RNQSAKYIRADPOGCRHRHSEFTSSTPSATRVGNTVPFGAGAAVGGGGSSSSSEDEVKR 1140
DB 1081 RNQSAKYIRADPOGCRHRHSEFTSSTPSATRVGNTVPFGAGAAVGGGGSSSSSEDEVKR 1140
QY 1141 HSSASFENVMLRPGELGGAPEPAKLGAAGLENGLNTYIDLVLVDKFOCPOECTPEPQ 1200
DB 1141 HSSASFENVMLRPGELGGAPEPAKLGAAGLENGLNTYIDLVLVDKFOCPOECTPEPQ 1200
QY 1201 PPPPPHQPPLGSGESSSTRSSSEDLGAYASISFOKQPEDRQ 1242
DB 1201 PPPPPHQPPLGSGESSSTRSSSEDLGAYASISFOKQPEDRQ 1242

RESULT 9
US-10-694-874-1
; Sequence 1, Application US/10694874
; Publication No. US2004009713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, Yu
; APPLICANT: WU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED INS-1/2 (Set1101/Set1149
; FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874
; PRIOR FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIOR FILING DATE: 2002-10-30

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NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-694-874-1

Query Match 100.0%; Score 1242; DB 16; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGFSDVRYKGYLRKPKSMHKKFFVLRASAEGAPARLEYENKKMRKKSAP 60
DB 1 MASPPESDGFSDVRYKGYLRKPKSMHKKFFVLRASAEGAPARLEYENKKMRKKSAP 60
QY 61 KRSTPLESCFNINRKADSKNKHLYALYTRDEHPALADSEAEODSWYQALLQHNRAKH 120
DB 61 KRSTPLESCFNINRKADSKNKHLYALYTRDEHPALADSEAEODSWYQALLQHNRAKH 120
QY 121 HDGAALAGAGGGGSCSGSGGAGEEDLSYGDVPPGPAFKEMVOYLKPKGLGQTKNLI 180
DB 121 HDGAALAGAGGGGSCSGSGGAGEEDLSYGDVPPGPAFKEMVOYLKPKGLGQTKNLI 180
QY 181 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRCGHSENFPIEVGRSAVTGPGEFMVQ 240
DB 181 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRCGHSENFPIEVGRSAVTGPGEFMVQ 240
QY 241 DSVVAQNMHETILEAMRAMSDEFRPRSKSSQSSSNCSPISVPLRRHLNPPSQVGLT 300
DB 241 DSVVAQNMHETILEAMRAMSDEFRPRSKSSQSSSNCSPISVPLRRHLNPPSQVGLT 300
QY 301 RRSRTESITATSPASVWGKPGSFVRASDGEGMTSPASVDSVPVSTNRTHAHRH 360
DB 301 RRSRTESITATSPASVWGKPGSFVRASDGEGMTSPASVDSVPVSTNRTHAHRH 360
QY 361 GSARLHPPLNHSRSLPMPASRCSPSATSPVLSSSSTGHSTDCLEPRRSASVSGSP 420
DB 361 GSARLHPPLNHSRSLPMPASRCSPSATSPVLSSSSTGHSTDCLEPRRSASVSGSP 420
QY 421 SDGFFISSDEYSSPCDFRSPFRSVTPDSLGHTPPARGEELSNYICMGKGPSTLYAPN 480
DB 421 SDGFFISSDEYSSPCDFRSPFRSVTPDSLGHTPPARGEELSNYICMGKGPSTLYAPN 480
QY 481 GHYILSRGNGHRCPTGTGLTSPALADDEAASADLNNRKRKTHSAQSPITTHQKTP 540
DB 481 GHYILSRGNGHRCPTGTGLTSPALADDEAASADLNNRKRKTHSAQSPITTHQKTP 540
QY 541 SOSVASIIEYTEMMPAYPPGGSGGRLPGHRHSAFVTRSYPEEGLEMHLERRGGHR 600
DB 541 SOSVASIIEYTEMMPAYPPGGSGGRLPGHRHSAFVTRSYPEEGLEMHLERRGGHR 600
QY 601 PDSSTLHTDDGYMSPGVAVPSPGRKSGDYMSPKSVSAPOQIINPIRRHPQRYDPN 660
DB 601 PDSSTLHTDDGYMSPGVAVPSPGRKSGDYMSPKSVSAPOQIINPIRRHPQRYDPN 660
QY 661 GYMMSPPSGGSPDYGCGPSSSSSSNAVPSTSGKMTNGVGGHSHVLPHPKPPES 720
DB 661 GYMMSPPSGGSPDYGCGPSSSSSSNAVPSTSGKMTNGVGGHSHVLPHPKPPES 720
QY 721 SGGKLLPCTGDYMANSPVGDNTSPSDCYGPEDPQHKPVLSTYSLPRSFKATQRPGE 780
DB 721 SGGKLLPCTGDYMANSPVGDNTSPSDCYGPEDPQHKPVLSTYSLPRSFKATQRPGE 780
QY 781 BEGAAHQLRLSTSGRLLYAATADSSSSSTSDBLGCGYCGARLEBPLPHPHOVOPH 840
DB 781 BEGAAHQLRLSTSGRLLYAATADSSSSSTSDBLGCGYCGARLEBPLPHPHOVOPH 840
QY 841 LPRKVDTAQNTSLARPTLSLGPXASTLPRAREQQOQQOQPLHHPPEPKSPSEYVNI 900
DB 841 LPRKVDTAQNTSLARPTLSLGPXASTLPRAREQQOQQOQPLHHPPEPKSPSEYVNI 900
QY 901 FSDDSGYLSGVAVAHSSSVACPSQLOPAPREETGTETWKMDLGGRRAAQDESGV 960

DB 901 FSDDSGYLSGVAVAHSSSVACPSQLOPAPREETGTETWKMDLGGRRAAQDESGV 960
QY 961 EMGRUGPAPGAASICRPTRAVPSRGDYMWQMSCPROSYDTSPPAIVSYADRTGIA 1020
DB 961 EMGRUGPAPGAASICRPTRAVPSRGDYMWQMSCPROSYDTSPPAIVSYADRTGIA 1020
QY 1021 AEEVSLPRATYMAASSSSAASPTGPGAAALAHSSLLGGPQPGGMSAFTRVNLSPN 1080
DB 1021 AEEVSLPRATYMAASSSSAASPTGPGAAALAHSSLLGGPQPGGMSAFTRVNLSPN 1080
QY 1081 RNQSAKVIADPOGCRRRHSSTFSSTPSATRVGNTVPFGAAGVGGGSSSSSEDEVK 1140
DB 1081 RNQSAKVIADPOGCRRRHSSTFSSTPSATRVGNTVPFGAAGVGGGSSSSSEDEVK 1140
QY 1141 HSSASFENYWLPRGELGAPKPPAKLGAAGGLENGLANTYDLYKDFRQCECTPEPQ 1200
DB 1141 HSSASFENYWLPRGELGAPKPPAKLGAAGGLENGLANTYDLYKDFRQCECTPEPQ 1200
QY 1201 PPPPPPHQPLGSGESSSTRASSEDLSAYASISFOKQPEDRQ 1242
DB 1201 PPPPPPHQPLGSGESSSTRASSEDLSAYASISFOKQPEDRQ 1242

RESULT 10
US-10-334-143-10
; Sequence 10, Application US/10334143
; Publication No. US20040009549A1
; GENERAL INFORMATION:
; APPLICANT: GRIGORIEV, IGOR VYACHESLAVOVICH
; APPLICANT: SUDASANAM, SUCHA
; TITLE OF INVENTION: METHOD FOR DETECTING REMOTE HOMOLOGUES AND NOVEL
; FILE REFERENCE: 038602/1543
; CURRENT APPLICATION NUMBER: US/10/334,143
; PRIOR FILING DATE: 2002-12-31
; PRIOR APPLICATION NUMBER: 60/343,169
; PRIOR FILING DATE: 2001-12-31
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-334-143-10

Query Match 100.0%; Score 1242; DB 15; Length 1316;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGFSDVRYKGYLRKPKSMHKKFFVLRASAEGAPARLEYENKKMRKKSAP 60
DB 75 MASPPESDGFSDVRYKGYLRKPKSMHKKFFVLRASAEGAPARLEYENKKMRKKSAP 134
QY 61 KRSTPLESCFNINRKADSKNKHLYALYTRDEHPALADSEAEODSWYQALLQHNRAKH 120
DB 135 KRSTPLESCFNINRKADSKNKHLYALYTRDEHPALADSEAEODSWYQALLQHNRAKH 194
QY 121 HDGAALAGAGGGGSCSGSGGAGEEDLSYGDVPPGPAFKEMVOYLKPKGLGQTKNLI 180
DB 195 HDGAALAGAGGGGSCSGSGGAGEEDLSYGDVPPGPAFKEMVOYLKPKGLGQTKNLI 254
QY 181 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRCGHSENFPIEVGRSAVTGPGEFMVQ 240
DB 181 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRCGHSENFPIEVGRSAVTGPGEFMVQ 240
QY 241 DSVVAQNMHETILEAMRAMSDEFRPRSKSSQSSSNCSPISVPLRRHLNPPSQVGLT 300
DB 255 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRCGHSENFPIEVGRSAVTGPGEFMVQ 314
QY 315 DSVVAQNMHETILEAMRAMSDEFRPRSKSSQSSSNCSPISVPLRRHLNPPSQVGLT 374
DB 301 RRSRTESITATSPASVWGKPGSFVRASDGEGMTSPASVDSVPVSTNRTHAHRH 360
QY 375 RRSRTESITATSPASVWGKPGSFVRASDGEGMTSPASVDSVPVSTNRTHAHRH 434

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QY 361 GSARLHPPLNRSRSLPMPASRCSPPATSPVLSSSSTSGHSTSDCLFPRSSASVSGSP 420
DB 435 GSARLHPPLNRSRSLPMPASRCSPPATSPVLSSSSTSGHSTSDCLFPRSSASVSGSP 494
QY 441 SDGGSISDEYSSCDPRSSFRSTPDSIGHTPPAREEELSNVICMGKGSPSTLAPN 480
DB 435 SDGGSISDEYSSCDPRSSFRSTPDSIGHTPPAREEELSNVICMGKGSPSTLAPN 554
QY 481 GHYILSRGNGHRCPTGTGLTSPALAGDEAASADLNDNRKRTSHAGSPITTHOKTP 540
DB 555 GHYILSRGNGHRCPTGTGLTSPALAGDEAASADLNDNRKRTSHAGSPITTHOKTP 614
QY 541 SOSVASIIEEYTEMMPAYPPGSGSGRLPGHRHSAFVTRBYPREGLEMHLERGGRH 600
DB 615 SOSVASIIEEYTEMMPAYPPGSGSGRLPGHRHSAFVTRBYPREGLEMHLERGGRH 674
QY 601 PDSSTLHTDDGYMPSPGVAPYPSGRKSGDYMPSPKSVAPQIINPIRRHFORVDN 660
DB 675 PDSSTLHTDDGYMPSPGVAPYPSGRKSGDYMPSPKSVAPQIINPIRRHFORVDN 734
QY 661 GYMMSBEGGCGSPDGGGSSSSSSNAVPSTGYGKLTWNGVGHSHVLPKRPYPS 720
DB 735 GYMMSBEGGCGSPDGGGSSSSSSNAVPSTGYGKLTWNGVGHSHVLPKRPYPS 794
QY 721 SGKLLPCTGDYMNMSPVGDSNTSSPDCCYGPEDPQHKPVLASYSLPRSFKHQRPCEP 780
DB 795 SGKLLPCTGDYMNMSPVGDSNTSSPDCCYGPEDPQHKPVLASYSLPRSFKHQRPCEP 854
QY 781 BEGAGHOLRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEBPLPHPHQVLOPH 840
DB 855 BEGAGHOLRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEBPLPHPHQVLOPH 914
QY 841 LPRKVTDAOTNSRLAPTRLSLGPXASTLPRAEQOQOQOPLLHPPEPSPGXYVIE 900
DB 915 LPRKVTDAOTNSRLAPTRLSLGPXASTLPRAEQOQOQOPLLHPPEPSPGXYVIE 974
QY 901 FGSDOSGYLSGVAHSHSPSVPCPSOLOPAPREESTGTIEEYKMDLGFGRAMQESTGV 960
DB 975 FGSDOSGYLSGVAHSHSPSVPCPSOLOPAPREESTGTIEEYKMDLGFGRAMQESTGV 1034
QY 961 EWGRIGPAPGASACRPTRAVPSRSDYMTQMOCPSQSYVDSPPAPVYADMRGTA 1020
DB 1035 EWGRIGPAPGASACRPTRAVPSRSDYMTQMOCPSQSYVDSPPAPVYADMRGTA 1094
QY 1021 AEEVSLPRTAAASSSSASASAPTPGQGAELAAHSSLLGGPQPGGMSAFTRVNLSPN 1080
DB 1095 AEEVSLPRTAAASSSSASASAPTPGQGAELAAHSSLLGGPQPGGMSAFTRVNLSPN 1154
QY 1081 RNOSAKVIRADPOGCRHRSSTPSTPATRVGMTVPFGAAGVGGGSSSESDVKR 1140
DB 1155 RNOSAKVIRADPOGCRHRSSTPSTPATRVGMTVPFGAAGVGGGSSSESDVKR 1214
QY 1141 HSSASHEWMLRPGELGAPKEPAKLCGAAGLENGLVNITDILVDFKQCOECTPBPQ 1200
DB 1215 HSSASHEWMLRPGELGAPKEPAKLCGAAGLENGLVNITDILVDFKQCOECTPBPQ 1274
QY 1201 PPPPPPHQPLGSGSSSTRSSEDLASVAGISFQKQPEDRQ 1242
DB 1275 PPPPPPHQPLGSGSSSTRSSEDLASVAGISFQKQPEDRQ 1316

RESULT 11
US-10-694-874-3
; Sequence 3, Application US/10694874
; Publication No. US20040097713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, YU
; APPLICANT: WU, JIONG
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (Ser1101/Ser1149)
; TITLE OF INVENTION: THEREOF
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FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIOR FILING DATE: 2002-10-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1231
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-694-874-3

Query Match 9.6%; Score 119; DB 16; Length 1231;
Best Local Similarity 100.0%; Pred. No. 4,5e-89;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 156 PGAPFKEWQVILKPKGLQGTQKLLIGYRLCLTSKTSISFVKUNSEAAVVLQLMNIRCG 215
DB 151 PGAPFKEWQVILKPKGLQGTQKLLIGYRLCLTSKTSISFVKUNSEAAVVLQLMNIRCG 210

QY 216 HSENFPIEYGRSAVYGPGEFPMQVNDVSVAQNMHTLLEAMRMSDERPRSKSSSS 274
DB 211 HSENFPIEYGRSAVYGPGEFPMQVNDVSVAQNMHTLLEAMRMSDERPRSKSSSS 269

RESULT 12
US-09-922-226-123
; Sequence 123, Application US/09922226
; Publication No. US20030077664A1
; GENERAL INFORMATION:
; APPLICANT: Zhao, Yi
; APPLICANT: Thacher, Scott M.
; APPLICANT: Xiao, Jia-Hao
; APPLICANT: Kusari, Jyotiromy
; APPLICANT: Chandraratna, Roshantha A.
; TITLE OF INVENTION: Methods of Screening For Compounds That
; FILE OF INVENTION: Modulate Hormone Receptor Activity
; FILE REFERENCE: P-AR 4681
; CURRENT APPLICATION NUMBER: US/09/922,226
; CURRENT FILING DATE: 2002-01-09
; PRIOR APPLICATION NUMBER: US 60/284,797
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 191
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 123
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Rattus sp.
US-09-922-226-123

Query Match 8.9%; Score 111; DB 10; Length 113;
Best Local Similarity 100.0%; Pred. No. 2,4e-83;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 DGFSQVAKYGLKPKSMHGRFFVLLRAASAGGPARLEYENKMKHSSAPKRSIPLE 67
DB 2 DGFSQVAKYGLKPKSMHGRFFVLLRAASAGGPARLEYENKMKHSSAPKRSIPLE 61

QY 68 SCFNINRADSKNHLVALYTRDEHPAIAADSAEDDSWYQALLQHNRAK 118
DB 62 SCFNINRADSKNHLVALYTRDEHPAIAADSAEDDSWYQALLQHNRAK 112

RESULT 13
US-09-731-660A-2
; Sequence 2, Application US/09731660A
; Publication No. US20020086972A1
; GENERAL INFORMATION:
; APPLICANT: KOUHARA, HARUHIKO
; APPLICANT: SPIVAK-KROIZMAN, TALY
; APPLICANT: LAY, IRIT
; APPLICANT: SCHLESINGER, JOSEPH
```

;; TITLE OF INVENTION: ADAPTOR PROTEIN PRS2 AND RELATED PRODUCTS AND METHODS
;; FILE REFERENCE: 098602/1023
;; CURRENT APPLICATION NUMBER: US/09/731,660A
;; CURRENT FILING DATE: 2000-12-08
;; PRIOR APPLICATION NUMBER: 08/980,523
;; PRIOR FILING DATE: 1997-12-01
;; PRIOR APPLICATION NUMBER: 60/032,093
;; PRIOR FILING DATE: 1996-12-03
;; NUMBER OF SEQ ID NOS: 8
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2
;; LENGTH: 114
;; TYPE: PRT
;; ORGANISM: Unknown Organism
;; FEATURE:
;; OTHER INFORMATION: Description of Unknown Organism: PTB domain of
;; OTHER INFORMATION: IRS-1
US-09-731-660A-2

Query Match 8.3%; Score 111; DB 12; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.4e-83;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 156 PGAPFKEVWQVILKPKGLGQTKNLIGYRLCLTSKTSIFVKLNSEAAAVVLQIMNIRRCG 215
Db 4 PGAPFKEVWQVILKPKGLGQTKNLIGYRLCLTSKTSIFVKLNSEAAAVVLQIMNIRRCG 63

Qy 216 HSNFFFIIEVGRSAVTGPGFPMQVDDSVVAQNMHETILEAMRAMSDEFR 266
Db 64 HSNFFFIIEVGRSAVTGPGFPMQVDDSVVAQNMHETILEAMRAMSDEFR 114

RESULT 14
US-10-192-381-5
;; Sequence 5, Application US/10192381
;; Publication No. US20030170807A1
;; GENERAL INFORMATION:
;; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
;; APPLICANT: WORLEY, Paul
;; APPLICANT: TU, Jian
;; APPLICANT: XIAO, Bo
;; APPLICANT: LEAHY, Daniel
;; APPLICANT: BENBEN, Juliet
;; APPLICANT: LANAHAN, Anthony
;; TITLE OF INVENTION: NUCLEIC ACID MOLECULE ENCODING HOMER 1b PROTEIN (AS
;; TITLE OF INVENTION: AMENDED)
;; FILE REFERENCE: JHU1580-4
;; CURRENT APPLICATION NUMBER: US/10/192,381
;; CURRENT FILING DATE: 2002-07-09
;; PRIOR APPLICATION NUMBER: US/09/377,285
;; PRIOR FILING DATE: 1999-08-18
;; PRIOR APPLICATION NUMBER: US 60/138,426
;; PRIOR FILING DATE: 1999-06-10
;; PRIOR APPLICATION NUMBER: US 60/138,493
;; PRIOR FILING DATE: 1999-06-10
;; PRIOR APPLICATION NUMBER: US 60/138,494
;; PRIOR FILING DATE: 1999-06-10
;; PRIOR APPLICATION NUMBER: US 60/097,334
;; PRIOR FILING DATE: 1998-08-18
;; NUMBER OF SEQ ID NOS: 72
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO 5
;; LENGTH: 105
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-192-381-5

Query Match 8.5%; Score 105; DB 14; Length 105;
Best Local Similarity 100.0%; Pred. No. 2e-78;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 161 KEWQVILKPKGLGQTKNLIGYRLCLTSKTSIFVKLNSEAAAVVLQIMNIRRCGSENF 220

Db 1 KEWQVILKPKGLGQTKNLIGYRLCLTSKTSIFVKLNSEAAAVVLQIMNIRRCGSENF 60
Qy 221 FFIIEVGRSAVTGPGFPMQVDDSVVAQNMHETILEAMRAMSDEFR 265
Db 61 FFIIEVGRSAVTGPGFPMQVDDSVVAQNMHETILEAMRAMSDEFR 105

RESULT 15
US-09-135-238B-17
;; Sequence 17, Application US/09135238B
;; Patent No. US2002017565A1
;; GENERAL INFORMATION:
;; APPLICANT: No. US2002017565Alan, Garry P.
;; APPLICANT: HICOSHI, Yasumichi
;; TITLE OF INVENTION: TOSO
;; FILE REFERENCE: A65635-1/DJ3/RMS
;; CURRENT APPLICATION NUMBER: US/09/135,238B
;; CURRENT FILING DATE: 1998-08-17
;; PRIOR APPLICATION NUMBER: 60/066,063
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 31
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 17
;; LENGTH: 19
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-135-238B-17

Query Match 1.5%; Score 19; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.8e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 881 QOPLHPPEPKSPGEYVNI 899
Db 1 QOPLHPPEPKSPGEYVNI 19

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Job time : 58 secs

Thu Jul 1 10:07:51 2004

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Page 1

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OM protein - protein search, using sw model

Run on: June 30, 2004, 14:05:37 ; Search time 24 Seconds
(without alignments)
2671.644 Million cell updates/sec

Title: US-09-903-063-5
Perfect score: 1242
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Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
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Post-processing: Listing first 45 summaries

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4: /cgn2_6/prodata/2/1aa/6B.COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	718	57.8	1243	2	US-08-557-139-2
3	119	9.6	1234	2	US-08-317-310A-15
4	119	9.6	1234	5	PCT-US95-13041-15
5	111	8.9	1133	3	US-09-284-033-8
6	111	8.9	1133	3	US-08-729-834B-8
7	93	7.5	1155	5	US-08-094-948A-29
8	93	7.5	1155	5	PCT-US96-09319-29
9	51	4.1	112	4	US-08-580-523-10
10	19	1.5	19	4	US-09-050-861B-17
11	19	1.5	19	4	US-09-050-861B-17
12	16	1.3	159	4	US-09-508-691-5
13	16	1.3	1321	2	US-08-317-310A-16
14	16	1.3	1321	2	US-08-317-310A-64
15	16	1.3	1321	5	PCT-US95-13041-16
16	15	1.2	15	3	US-08-602-999A-382
17	15	1.2	15	4	US-08-602-999A-382
18	15	1.2	15	4	US-09-500-124-382
19	15	1.2	15	4	US-09-508-691-2
20	15	1.2	15	4	US-09-508-691-3
21	15	1.2	15	4	US-09-508-691-4
22	15	1.2	16	5	US-08-408-604A-23
23	14	1.1	17	1	US-08-408-604A-27
24	14	1.1	17	5	PCT-US93-09626-27
25	13	1.0	13	1	US-08-408-604A-37
26	13	1.0	13	1	US-08-408-604A-39
27	13	1.0	13	5	PCT-US93-09626-37

28	13	1.0	13	5	PCT-US93-09626-39	Sequence 39, Appl
29	12	1.0	12	1	US-08-094-948A-11	Sequence 11, Appl
30	12	1.0	12	5	PCT-US96-09319-11	Sequence 11, Appl
31	12	1.0	18	4	US-08-408-604A-28	Sequence 32, Appl
32	12	1.0	18	4	US-09-579-664B-32	Sequence 32, Appl
33	12	1.0	28	5	PCT-US93-09626-28	Sequence 28, Appl
34	12	1.0	24	1	US-08-094-948A-19	Sequence 19, Appl
35	12	1.0	24	5	PCT-US96-09319-19	Sequence 19, Appl
36	11	0.9	11	1	US-08-128-971B-6	Sequence 8, Appl
37	11	0.9	11	1	US-08-128-971B-8	Sequence 8, Appl
38	11	0.9	11	1	US-08-128-971B-9	Sequence 8, Appl
39	11	0.9	11	3	US-08-552-877-48	Sequence 48, Appl
40	11	0.9	11	3	US-08-552-877-52	Sequence 50, Appl
41	11	0.9	11	3	US-08-552-877-52	Sequence 52, Appl
42	11	0.9	11	3	US-08-552-877-53	Sequence 53, Appl
43	11	0.9	11	3	US-08-476-515A-48	Sequence 48, Appl
44	11	0.9	11	3	US-08-476-515A-50	Sequence 50, Appl
45	11	0.9	11	3	US-08-476-515A-52	Sequence 52, Appl

ALIGNMENTS

RESULT 1									
US-09-508-691-1									
Sequence 1, Application US/09508691									
Patent No. 6498139									
GENERAL INFORMATION:									
APPLICANT: YAZAKI, YOSHIO									
APPLICANT: ASANO, TOMOICHIRO									
APPLICANT: KUBO, HIDEO									
APPLICANT: KANDA, AKIRA									
TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE									
FILE REFERENCE: 4895-0019-0PCT									
CURRENT APPLICATION NUMBER: US/09/508,691									
CURRENT FILING DATE: 2000-03-29									
PRIOR APPLICATION NUMBER: PCT/JP98/04293									
PRIOR FILING DATE: 1998-09-25									
PRIOR APPLICATION NUMBER: JP9-263719									
PRIOR FILING DATE: 1997-09-29									
NUMBER OF SEQ ID NOS: 5									
SOFTWARE: PatentIn version 3.0									
SEQ ID NO 1									
LENGTH: 1242									
TYPE: PRT									
ORGANISM: Homo sapiens									
US-09-508-691-1									
Query Match									
Best Local Similarity 100.0%; Score 1242; DB 4; Length 1242;									
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
QY	1	MASPPEDGSDVRKVGYLKKPKSMKRFVYLAASAGCAPALEYENKKRKHSAP	60						
DB	1	MASPPEDGSDVRKVGYLKKPKSMKRFVYLAASAGCAPALEYENKKRKHSAP	60						
QY	61	KRSIPLESCEFINRRAADSKKCHVALYTRDEHFAIADSBAEDSWYQALLQILNRAKH	120						
DB	61	KRSIPLESCEFINRRAADSKKCHVALYTRDEHFAIADSBAEDSWYQALLQILNRAKH	120						
QY	121	HDGAALGAGGGGSCGSSGLGAGEIDSYGDVPPGPAKEYWQVILKKGIGQTNLI	180						
DB	121	HDGAALGAGGGGSCGSSGLGAGEIDSYGDVPPGPAKEYWQVILKKGIGQTNLI	180						
QY	181	GIYRLCLTSKTIISFVKLNSEAAAVLQNMIRRCGSENFETEVGRSAVTGPEFMQV	240						
DB	181	GIYRLCLTSKTIISFVKLNSEAAAVLQNMIRRCGSENFETEVGRSAVTGPEFMQV	240						
QY	241	DDSVAAQNMETIIEARRAMSDERRPRSKQSSSNCNPISVPLRRHILNPPSOVGLT	300						
DB	241	DDSVAAQNMETIIEARRAMSDERRPRSKQSSSNCNPISVPLRRHILNPPSOVGLT	300						
QY	301	RRSNTESITATSPASVVGKPKGPRVYASDGGGTMRPASVVGSPVSPSTNTTHARRHR	360						

Thu Jul 1 10:07:51 2004

us-09-903-063-5.01ig.ra1

Page 2

DB 301 RSRRTSITATSPASVVGKPKGFRVRASDGEINSRASVDGSSVSTIRTAHNR 360
QY 361 GSARLHPPLNHSSSIIPWPARCSPSATSPVLSSSSTSGHSTSDCLFPRSSASVSGSP 420
DB 361 GSARLHPPLNHSSSIIPWPARCSPSATSPVLSSSSTSGHSTSDCLFPRSSASVSGSP 420
QY 421 SDGGFISDEYSGSPCDPRSSFRSVTPDSLGHTPPARGEBELSNYICMGKGPSTLTAPN 480
DB 421 SDGGFISDEYSGSPCDPRSSFRSVTPDSLGHTPPARGEBELSNYICMGKGPSTLTAPN 480
QY 481 GHYILSRGNGHRCPTGTGLGTSPALAGDEAASADLDNRFRKRTHSAGTSPITTHOKTP 540
DB 481 GHYILSRGNGHRCPTGTGTGLGTSPALAGDEAASADLDNRFRKRTHSAGTSPITTHOKTP 540
QY 541 SOSVSASIEETEMPAVPPGGSGGRLPGHRSAPVPRSYBEELMHPERRGHR 600
DB 541 SOSVSASIEETEMPAVPPGGSGGRLPGHRSAPVPRSYBEELMHPERRGHR 600
QY 601 PDSSTLHTDGYMSPGVAVPVGSKGSGDYMPKSVSAPOQIINPERRHPOVDN 660
DB 601 PDSSTLHTDGYMSPGVAVPVGSKGSGDYMPKSVSAPOQIINPERRHPOVDN 660
QY 661 GYMMAPBSGGCSFDIGGGSSSSSNVAVPGTSGYGLMNTNGVGHSHVLPKXPVVS 720
DB 661 GYMMAPBSGGCSFDIGGGSSSSSNVAVPGTSGYGLMNTNGVGHSHVLPKXPVVS 720
QY 721 SGGLLPCTGDYMMSPVGDSTNSPDDCYGPEDPQHVPVLSYSLPSPFKHTORPGR 780
DB 721 SGGLLPCTGDYMMSPVGDSTNSPDDCYGPEDPQHVPVLSYSLPSPFKHTORPGR 780
QY 781 EBSARHQHRLSTSSGRLLYATADSSSTSSDSCGGYCGARLPSLPHPHQVLPQH 840
DB 781 EBSARHQHRLSTSSGRLLYATADSSSTSSDSCGGYCGARLPSLPHPHQVLPQH 840
QY 841 LPRKVTAAOTNRLARPTLSLGDPPKASTLPRAEQOQQOQOQLHPREPKSGEVNIE 900
DB 841 LPRKVTAAOTNRLARPTLSLGDPPKASTLPRAEQOQQOQOQLHPREPKSGEVNIE 900
QY 901 FGSDDGSGYLSGPVAFHSPSVRCPSQIQAPAREETCTEEMKMDLGPERRAAMQESTGV 960
DB 901 FGSDDGSGYLSGPVAFHSPSVRCPSQIQAPAREETCTEEMKMDLGPERRAAMQESTGV 960
QY 961 EMERLGPARGASISGCPATAVSSRDGYMTQMSPROSYVDTSSAAVSYADMTGTA 1020
DB 961 EMERLGPARGASISGCPATAVSSRDGYMTQMSPROSYVDTSSAAVSYADMTGTA 1020
QY 1021 AEEVSLPRATMAAASSSAASAPPTGQGAELAAHSSLLGPGQPGGMSAFTRVNLSPN 1080
DB 1021 AEEVSLPRATMAAASSSAASAPPTGQGAELAAHSSLLGPGQPGGMSAFTRVNLSPN 1080
QY 1081 RNSAKVIRADPOGCRHRHSEFTSSSTPRTVGNVYPRGAAGAVGGGSSSSSDVVR 1140
DB 1081 RNSAKVIRADPOGCRHRHSEFTSSSTPRTVGNVYPRGAAGAVGGGSSSSSDVVR 1140
QY 1141 HSSASFENVWLRPGEIGAGAPKEPAKCGAAGLENGLNTIDLDLVDFXQPCQECTPEPQ 1200
DB 1141 HSSASFENVWLRPGEIGAGAPKEPAKCGAAGLENGLNTIDLDLVDFXQPCQECTPEPQ 1200
QY 1201 PPPPPPHOPLSGESSSTRSSSEDLASVASTSFQKQPEPQ 1242
DB 1201 PPPPPPHOPLSGESSSTRSSSEDLASVASTSFQKQPEPQ 1242

RESULT 2
US-08-557-139-2
Sequence 2, Application US/08557139
Patent No. 5827730
GENERAL INFORMATION:
APPLICANT: Pedersen, Oluf
APPLICANT: Bjorbak, Christian
APPLICANT: Frederiksen, Kathrine A.
TITLE OF INVENTION: MUTANT DNA ENCODING INSULIN RECEPTOR

TITLE OF INVENTION: SUBSTRATE 1
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESS: No. 5827730c No. 5827730disk of No. 5827730th America
STREET: 405 Lexington Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10174
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/557,139
FILING DATE: 12-FEB-1996
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4041,204-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 867-0123
TELEFAX: (212) 878-9655
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1243 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-557-139-2

Query Match 57.8%; Score 718; DB 2; Length 1243;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1238; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 MASPPESGFDVAKVYLRKPKMHRFPVLRASAGAPALREYENKPKRHSSAP 60
DB 1 MASPPESGFDVAKVYLRKPKMHRFPVLRASAGAPALREYENKPKRHSSAP 60
QY 61 KRSIPLBSCFINRBRASKNHVALYTRDEHFAIADSEADSWYQALLQHNRAKH 120
DB 61 KRSIPLBSCFINRBRASKNHVALYTRDEHFAIADSEADSWYQALLQHNRAKH 120
QY 121 HDGAALGA-GGGGSGSGSGGLCEAGEDLSYGDVPPGPAKEVWQVILKPKLGQTKNL 179
DB 121 HDGAALGA-GGGGSGSGSGGLCEAGEDLSYGDVPPGPAKEVWQVILKPKLGQTKNL 180
QY 180 IGIVRLCLTSKTSIFVKLNSEAAVVLQNMIRRCGSENEFFIEVRSATVGPGEFMQ 239
DB 180 IGIVRLCLTSKTSIFVKLNSEAAVVLQNMIRRCGSENEFFIEVRSATVGPGEFMQ 240
QY 240 VDSVVAQNMETLLEAVRANGDEFFRPSKSGSSSNCPISVPLRHHANNPPSQVGL 299
DB 240 VDSVVAQNMETLLEAVRANGDEFFRPSKSGSSSNCPISVPLRHHANNPPSQVGL 300
QY 300 TRRSRTESITLTPSPASVVGKPGSFVRASDGGTMSRPASVVGSPVSPSTNRTHAHR 359
DB 300 TRRSRTESITLTPSPASVVGKPGSFVRASDGGTMSRPASVVGSPVSPSTNRTHAHR 360
QY 361 RGSARLHPPLNHSSSIIPWPARCSPSATSPVLSSSSTSGHSTSDCLFPRSSASVSGS 419
DB 361 RGSARLHPPLNHSSSIIPWPARCSPSATSPVLSSSSTSGHSTSDCLFPRSSASVSGS 420
QY 420 PSDGGFISDEYSGSPCDPRSSFRSVTPDSLGHTPPARGEBELSNYICMGKGPSTLTAP 479
DB 420 PSDGGFISDEYSGSPCDPRSSFRSVTPDSLGHTPPARGEBELSNYICMGKGPSTLTAP 480
QY 480 NGHYILSRGNGHRCPTGTGTGLGTSPALAGDEAASADLDNRFRKRTHSAGTSPITTHOKT 539
DB 480 NGHYILSRGNGHRCPTGTGTGLGTSPALAGDEAASADLDNRFRKRTHSAGTSPITTHOKT 540

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QY 540 PSQSSVASIEBYETEMPAVPPGGSGGRLPGHRSAFVPTRSYYPEGLMHLERRGGH 599
DB 541 PSQSSVASIEBYETEMPAVPPGGSGGRLPGHRSAFVPTRSYYPEGLMHLERRGGH 600
QY 600 RPDSTLTHTDGYMMSPGVAPVPSGRKSGDYMPMSKXSAQOQIINPRRHPQVDP 659
DB 601 RPDSTLTHTDGYMMSPGVAPVPSGRKSGDYMPMSKXSAQOQIINPRRHPQVDP 660
QY 660 NGYMMSPSGGSPDYGSGSSSSSSSSNAVPGSTSYGLMTNGVGHSHLPHPKPVE 719
DB 661 NGYMMSPSGGSPDYGSGSSSSSSSSNAVPGSTSYGLMTNGVGHSHLPHPKPVE 720
QY 720 SSGGLLCTGDDYMMSPVGDSTNSPSDCTYGPEDPHKAVLSYSLPRSFKTORPGE 779
DB 721 SSGGLLCTGDDYMMSPVGDSTNSPSDCTYGPEDPHKAVLSYSLPRSFKTORPGE 780
QY 780 PEEGARHQLRLSTSSGRLVYATADSSSTSSDLSGGYCGARLEPRLPHPHOVLQP 839
DB 781 PEEGARHQLRLSTSSGRLVYATADSSSTSSDLSGGYCGARLEPRLPHPHOVLQP 840
QY 840 HLPKRYDTAQTNSRLAAPTRLSLGDPYASTLPRAREQOQOQPLHHPPEKSPGEYNI 899
DB 841 HLPKRYDTAQTNSRLAAPTRLSLGDPYASTLPRAREQOQOQPLHHPPEKSPGEYNI 900
QY 900 EFGSDQSGYLGGPVAFHSSPSVRCPSQLQPAPEEETIEEYMKMDLGPGRAMQESTG 959
DB 901 EFGSDQSGYLGGPVAFHSSPSVRCPSQLQPAPEEETIEEYMKMDLGPGRAMQESTG 960
QY 960 VEMGELGAPAPPAASICRPTRAVPSRSDYMTQWSCRQSGYVDTSPAPVYADMTGI 1019
DB 961 VEMGELGAPAPPAASICRPTRAVPSRSDYMTQWSCRQSGYVDTSPAPVYADMTGI 1020
QY 1020 AAEEVSLPRATMAAASSASASPTGPGAAELAAHSLILGGQREGGMAFRVNLSP 1079
DB 1021 AAEEVSLPRATMAAASSASASPTGPGAAELAAHSLILGGQREGGMAFRVNLSP 1080
QY 1080 NRMOSAKYIRADPOGCRRRHSETPTSPSATRVGNTVPFAGAAVGGGSSSSSDVK 1139
DB 1081 NRMOSAKYIRADPOGCRRRHSETPTSPSATRVGNTVPFAGAAVGGGSSSSSDVK 1140
QY 1140 RHSSASFEWVWRPELGGAPPEPAKLCGAAGLENGLNTYDLVDLDFKCPCECTPEP 1199
DB 1141 RHSSASFEWVWRPELGGAPPEPAKLCGAAGLENGLNTYDLVDLDFKCPCECTPEP 1200
QY 1200 QPPPPPHQPLGSGESSSTRSSSEDLASVASISFOKOPEDRQ 1242
DB 1201 QPPPPPHQPLGSGESSSTRSSSEDLASVASISFOKOPEDRQ 1243
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RESULT 3
US-08-317-310A-15
Sequence 15, Application US/08317310A
Patent No. 5688701

GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian
APPLICANT: PIERCE, Jacalyn H.
TITLE OF INVENTION: THE IRS FAMILY OF GENES
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317.310A

FILING DATE: 03-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Louis Myers
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-022
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1234 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-317-310A-15

Query Match 9.6%; Score 119; DB 2; Length 1234;
Best Local Similarity 100.0%; Pred. No. 4.8e-97;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 156 PGAPFKEVWQVILKPKGLGQTKNLIGIYRLCTSKTISFKVKNSEAAVYQLMNIIRCG 215
DB 151 PGAPFKEVWQVILKPKGLGQTKNLIGIYRLCTSKTISFKVKNSEAAVYQLMNIIRCG 210
QY 216 HSENFPEIYVGRSAVTGPEEFMWQVDDSVAAQNMHETILEANRMSDEFRRPSKQSSS 274
DB 211 HSENFPEIYVGRSAVTGPEEFMWQVDDSVAAQNMHETILEANRMSDEFRRPSKQSSS 269
```

RESULT 4
PCT-US95-13041-15
Sequence 15, Application PC/TUS9513041
GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian
APPLICANT: PIERCE, Jacalyn H.
TITLE OF INVENTION: THE IRS FAMILY OF GENES
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13041
FILING DATE: Herewith
PRIOR APPLICATION NUMBER: 08/317,310
FILING DATE: 03-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Louis Myers
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-022PC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1234 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
PCT-US95-13041-15

Query Match 9.6%; Score 119; DB 5; Length 1234;
Best Local Similarity 100.0%; Pred. No. 4.8e-97;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 156 PDPAFKXWQVILKPKGLGQTNLIGIYRLCLTSKTSIFVKLNSEAAVVLQMNIRRCG 215
DB 151 PDPAFKXWQVILKPKGLGQTNLIGIYRLCLTSKTSIFVKLNSEAAVVLQMNIRRCG 210
QY 216 HSENFELIVGSAVYNGPEFPMQVDDSVAAQNMHETILEARASDEFRRPSKQSSS 274
DB 211 HSENFELIVGSAVYNGPEFPMQVDDSVAAQNMHETILEARASDEFRRPSKQSSS 269

RESULT 5

US-09-284-033-8
; Sequence 8, Application US/09284033
; Patent No. 6194173
; GENERAL INFORMATION:
; APPLICANT: Czech, Michael P. and Klarlund, Jes K.
; TITLE OF INVENTION: BINDING PROTEINS FOR PHOSPHOINOSITIDES, GRP1 OR GENERAL RECEPTOR
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 STATE STREET
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/284,033
; FILING DATE: 1999-04-06
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN: 08/729,834
; FILING DATE: 07 OCTOBER 1996
; APPLICATION NUMBER: PCT/US97/18152
; FILING DATE: 1997-10-07
; ATTORNEY/AGENT INFORMATION:
; NAME: MANDRAGOURAS, AMY E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: UMM-018CPUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 113 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-09-284-033-8

Query Match 8.9%; Score 111; DB 3; Length 113;
Best Local Similarity 100.0%; Pred. No. 7.1e-91;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 DGFSDVRKVGYLKRPKSMHRFFVLRAASAGGPARLEYENKKRRKSSAPKKSIPLE 67
DB 2 DGFSDVRKVGYLKRPKSMHRFFVLRAASAGGPARLEYENKKRRKSSAPKKSIPLE 61
QY 68 SCFNINRADSKKHLVALYTRDEHFAIADSEADSDSWYQALLQLHNRK 118
DB 62 SCFNINRADSKKHLVALYTRDEHFAIADSEADSDSWYQALLQLHNRK 112

RESULT 6

US-08-729-834B-8

; Sequence 8, Application US/08729834B
; Patent No. 6221841
; GENERAL INFORMATION:
; APPLICANT: Czech, Michael P.
; TITLE OF INVENTION: General Receptors for Phosphoinositides
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/729,834B
; FILING DATE: October 7, 1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: UMM-018
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 113 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-729-834B-8

Query Match 8.9%; Score 111; DB 3; Length 113;
Best Local Similarity 100.0%; Pred. No. 7.1e-91;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 DGFSDVRKVGYLKRPKSMHRFFVLRAASAGGPARLEYENKKRRKSSAPKKSIPLE 67
DB 2 DGFSDVRKVGYLKRPKSMHRFFVLRAASAGGPARLEYENKKRRKSSAPKKSIPLE 61
QY 68 SCFNINRADSKKHLVALYTRDEHFAIADSEADSDSWYQALLQLHNRK 118
DB 62 SCFNINRADSKKHLVALYTRDEHFAIADSEADSDSWYQALLQLHNRK 112

RESULT 7

US-08-094-948A-29
; Sequence 29, Application US/08094948A
; Patent No. 5621075
; GENERAL INFORMATION:
; APPLICANT: Kahn, C. Ronald
; APPLICANT: White, Morris F.
; APPLICANT: Rothenberg, Paul Louis
; TITLE OF INVENTION: INSULIN RECEPTOR SUBSTRATE
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lahive & Cockfield
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/094,948A
FILING DATE: 21-JULY-1993
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/643,982
FILING DATE: 18-JAN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Myers, Louis (PLM)
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-013DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-094-948A-29

Query Match
Best Local Similarity 100.0%; Pred. No. 6.3e-74;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db
380 SRCSPSATSPVLSSSSTSGHSTSDCLFPRRSASVSGSPDGGFISDEYSSPCDFR 439
335 SRCSPSATSPVLSSSSTSGHSTSDCLFPRRSASVSGSPDGGFISDEYSSPCDFR 394
440 SSFRSTPDSLGHTPPARGEELSNYICWGKG 472
395 SSFRSTPDSLGHTPPARGEELSNYICWGKG 427

RESULT 8
PCT-US96-09319-29
Sequence 29, Application PC/TUS9609319
GENERAL INFORMATION:
APPLICANT: Kahn, C. Ronald
APPLICANT: White, Morris F.
APPLICANT: Rothenberg, Paul Louis
TITLE OF INVENTION: INSULIN RECEPTOR SUBSTRATE
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lahive & Cockfield
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/09319
FILING DATE:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/094,948
FILING DATE: 21-JULY-1993
APPLICATION NUMBER: US 07/643,982
FILING DATE: 18-JAN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Myers, Louis (PLM)
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-013DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-09319-29

Query Match
Best Local Similarity 100.0%; Pred. No. 6.3e-74;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db
380 SRCSPSATSPVLSSSSTSGHSTSDCLFPRRSASVSGSPDGGFISDEYSSPCDFR 439
335 SRCSPSATSPVLSSSSTSGHSTSDCLFPRRSASVSGSPDGGFISDEYSSPCDFR 394
440 SSFRSTPDSLGHTPPARGEELSNYICWGKG 472
395 SSFRSTPDSLGHTPPARGEELSNYICWGKG 427

RESULT 9
US-08-980-523-10
Sequence 10, Application US/08980523
Patent No. 6310181
GENERAL INFORMATION:
APPLICANT: Konara, Haruhiko
APPLICANT: Spivak-Krolzman, Taly
APPLICANT: Lax, Iril
APPLICANT: Schlessinger, Joseph
TITLE OF INVENTION: ADAPTOR PROTEIN FR2 AND
RELATED PRODUCTS AND METHODS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: PASTED for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/980,523
FILING DATE: December 1, 1997
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/21851
FILING DATE: December 1, 1997
APPLICATION NUMBER: 60/032,093
FILING DATE: December 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/045
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-980-523-10

Query Match 4.1%; Score 51; DB 4; Length 112;
Best Local Similarity 100.0%; Pred. No. 1.8e-37;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 156 PGAFKFEWQVILIKPKIGTQTKNLIGIYLCITSKTISFVKNSFAAYVL 206
DB 4 PGAFKFEWQVILIKPKIGTQTKNLIGIYLCITSKTISFVKNSFAAYVL 54

RESULT 10
US-09-050-861B-17

; Sequence 17, Application US/09050861B
; Patent No. 655314
; GENERAL INFORMATION:
; APPLICANT: Payan, Donald
; TITLE OF INVENTION: TOSO AS A TARGET FOR DRUG SCREENING
; FILE REFERENCE: RIGL-002CON
; CURRENT APPLICATION NUMBER: US/09/050,861B
; CURRENT FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: US/09/651,150B
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: US 09/050,861
; PRIOR FILING DATE: 1998-03-30
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 17
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-050-861B-17

Query Match 1.5%; Score 19; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.1e-09;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 881 QCPILHPPEKSPGEYVNI 899
DB 1 QCPILHPPEKSPGEYVNI 19

RESULT 11
US-09-050-861B-21

; Sequence 21, Application US/09050861B
; Patent No. 655314
; GENERAL INFORMATION:
; APPLICANT: Payan, Donald
; TITLE OF INVENTION: TOSO AS A TARGET FOR DRUG SCREENING
; FILE REFERENCE: RIGL-002CON
; CURRENT APPLICATION NUMBER: US/09/050,861B
; CURRENT FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: US/09/651,150B
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: US 09/050,861
; PRIOR FILING DATE: 1998-03-30
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 21
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-050-861B-21

Query Match 1.5%; Score 19; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.1e-09;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 928 QPAPREETGTTEYMKDL 946
DB 1 QPAPREETGTTEYMKDL 19

RESULT 12
US-09-508-691-5

; Sequence 5, Application US/09508691

; Patent No. 6498139
; GENERAL INFORMATION:
; APPLICANT: YAZAKI, YOSHIO
; APPLICANT: ASANO, TOMOCHIRO
; APPLICANT: KURO, HIDEO
; APPLICANT: KANDA, AKIRA
; TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE
; FILE REFERENCE: 4895-0019-0PCT
; CURRENT APPLICATION NUMBER: US/09/508,691
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: PCT/JP98/04293
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP9-263719
; PRIOR FILING DATE: 1997-09-29
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 5
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-508-691-5

Query Match 1.3%; Score 16; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 3.5e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 FFFIEVGRSAVTGPG 235
DB 59 FFFIEVGRSAVTGPG 74

RESULT 13

US-08-317-310A-16
; Sequence 16, Application US/08317310A
; Patent No. 5858701
; GENERAL INFORMATION:
; APPLICANT: WHITE, Morris F.
; APPLICANT: SUN, Xiao Jian
; APPLICANT: PIERCE, Jacalyn H.
; TITLE OF INVENTION: THE IRS FAMILY OF GENES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/317,310A
; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Louis Myers
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: JDP-022
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1321 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-317-310A-16

Thu Jul 1 10:07:51 2004

us-09-903-063-5.olg.ral

Page 7

Query Match 1.3%; Score 16; DB 2; Length 1321;
Best Local Similarity 100.0%; Pred. No. 2.5e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 FFTEVGRSAVTGPGE 235
DB 251 FFTEVGRSAVTGPGE 266

RESULT 14

US-08-317-310A-64
Sequence 64, Application US/08317310A
Patent No. 3858701
GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian
APPLICANT: PIERCE, Jacalyn H.
TITLE OF INVENTION: THE IRS FAMILY OF GENES
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317,310A
FILING DATE: 03-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Louis Myers
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-022
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 1321 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-317-310A-64

Query Match 1.3%; Score 16; DB 2; Length 1321;
Best Local Similarity 100.0%; Pred. No. 2.5e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 FFTEVGRSAVTGPGE 235
DB 251 FFTEVGRSAVTGPGE 266

RESULT 15

PCT-US95-13041-16
Sequence 16, Application PC/TUS9513041
GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian
APPLICANT: PIERCE, Jacalyn H.
TITLE OF INVENTION: THE IRS FAMILY OF GENES
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts

COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13041
FILING DATE: Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/317,310
FILING DATE: 03-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Louis Myers
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-022PC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 1321 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-13041-16

Query Match 1.3%; Score 16; DB 5; Length 1321;
Best Local Similarity 100.0%; Pred. No. 2.5e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 FFTEVGRSAVTGPGE 235
DB 251 FFTEVGRSAVTGPGE 266

Search completed: June 30, 2004, 14:11:58
Job time : 26 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 30, 2004, 14:00:16 ; Search time 23 Seconds
(without alignments)
2787,802 Million cell updates/sec

Title: US-09-903-063-5
Perfect score: 6593
Sequence: 1 MASPPSDGSDGVKGYLR.....SEDSAVASISFOKQPDRO 1242

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: Issued Patents_AA*
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3: /cgn2_6/ptodata/2/1aa/5B.COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	6553.5	99.4	1243	2	US-08-557-139-2
3	5801.5	88.0	1234	2	US-08-317-310A-15
4	5801.5	88.0	1234	5	PCT-US95-130A1-15
5	5336.5	80.9	1135	1	US-08-094-948A-29
6	5336.5	80.9	1135	5	PCT-US96-09319-29
7	1953.5	29.6	1321	2	US-08-317-310A-64
8	1519	23.0	1321	2	US-08-317-310A-16
9	1519	23.0	1321	5	PCT-US95-130A1-16
10	590.5	9.0	1159	4	US-09-508-691-5
11	586	8.9	113	3	US-09-284-031-8
12	586	8.9	113	3	US-08-728-83B-8
13	548	8.3	112	4	US-08-980-523-10
14	289.5	4.4	1184	4	US-09-266-225D-18
15	285	4.3	1185	3	US-09-041-886-23
16	2736	3.6	2736	4	US-09-252-991A-30227
17	233.5	3.5	1312	4	US-09-041-886-19
18	233.5	3.5	1312	4	US-09-648-281-2
19	233.5	3.5	1312	4	US-09-707-919A-19
20	233.5	3.5	1312	4	US-09-083-268-3
21	232.5	3.5	2294	4	US-09-252-991A-17221
22	230.5	3.5	1495	4	US-08-522-726B-1
23	230.5	3.5	1495	4	US-09-337-384-1
24	230	3.5	969	4	US-09-252-991A-26985
25	230	3.5	1228	4	US-09-252-991A-17764
26	221.5	3.4	694	2	US-08-701-240-2
27	221.5	3.4	694	3	US-09-138-236-2

28	221.5	3.4	1317	3	US-09-083-521-7	Sequence 7, Appl
29	221.5	3.4	2035	1	US-08-046-585-5	Sequence 5, Appl
30	221.5	3.4	2035	1	US-08-393-703-5	Sequence 5, Appl
31	221.5	3.4	2035	5	PCT-US93-11721-5	Sequence 5, Appl
32	215	3.3	826	4	US-09-894-998A-47	Sequence 4, Appl
33	214.5	3.3	1411	4	US-09-252-991A-26408	Sequence 28408, A
34	214	3.2	685	2	US-08-701-240-4	Sequence 4, Appl
35	214	3.2	685	3	US-09-138-236-4	Sequence 4, Appl
36	213.5	3.2	841	4	US-09-252-991A-26919	Sequence 26919, A
37	213	3.2	1142	2	US-08-393-118-7	Sequence 7, Appl
38	213	3.2	1142	2	US-08-845-528C-7	Sequence 7, Appl
39	213	3.2	1142	4	US-09-066-281B-7	Sequence 7, Appl
40	213	3.2	1142	4	US-09-468-433C-7	Sequence 7, Appl
41	212.5	3.2	2972	4	US-09-579-181-2	Sequence 2, Appl
42	212.5	3.2	3118	4	US-09-579-181-1	Sequence 1, Appl
43	212	3.2	957	4	US-09-252-991A-20408	Sequence 20408, A
44	212	3.2	977	4	US-09-252-991A-16655	Sequence 16655, A
45	211	3.2	1706	4	US-09-252-991A-31760	Sequence 31760, A

ALIGNMENTS

RESULT 1									
US-09-508-691-1									
Sequence 1, Application US/09508691									
Patent No. 6498139									
GENERAL INFORMATION:									
APPLICANT: YAZAKI, YOSHIO									
APPLICANT: AGANO, TOMOICHIRO									
APPLICANT: KUBO, HIDEO									
APPLICANT: KANDA, AKIRA									
TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE									
FILE REFERENCE: 4895-0019-OPCT									
CURRENT APPLICATION NUMBER: US/09/508, 691									
PRIORITY FILING DATE: 2000-03-29									
PRIORITY APPLICATION NUMBER: PCT/JP98/04293									
PRIORITY FILING DATE: 1998-09-25									
PRIORITY APPLICATION NUMBER: JP9-263719									
PRIORITY FILING DATE: 1997-09-29									
NUMBER OF SEQ. ID NOS: 5									
SOFTWARE: PatentIn version 3.0									
SEQ ID NO 1									
LENGTH: 1242									
TYPE: PRT									
ORGANISM: Homo sapiens									
US-09-508-691-1									
Query Match									
Best Local Similarity 100.0%; Score 6593; DB 4; Length 1242;									
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
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DB	1	MASPPSDGSDGVKGYLRKPKSMKRFVLRRASEAGPARLEYENCKWRHKSAP	60						
QY	61	KRSIPESCNINRKADSKRKHVALYTRDEHPALAADEAODSVYQALLQHNRAKH	120						
DB	61	KRSIPESCNINRKADSKRKHVALYTRDEHPALAADEAODSVYQALLQHNRAKH	120						
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DB	181	GIYRLCLTSTISFVTLNBBAAVITQLMNIKRCGSENFPIEVGRSAVTGGEFMQV	240						
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Db 361 GSARLHPPLNHSRISIMPASRCPSATSPVLSSTSGHSTDCLPFRRSASVSGP 420
Qy 421 SDGFISSDEYSGSPCDFRSFRSVTPDSLGHTPPARGEBELSNYICMGKGPSTLAP 480
Db 421 SDGFISSDEYSGSPCDFRSFRSVTPDSLGHTPPARGEBELSNYICMGKGPSTLAP 480
Qy 481 GHYILSRGNGHRCPTGTGLTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKT 540
Db 481 GHYILSRGNGHRCPTGTGLTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKT 540
Qy 541 SSGSVASIEEYTEKMPAYPPGGSGGRLPGHRSAPVPTSYEEGLEMPLERRGHR 600
Db 541 SSGSVASIEEYTEKMPAYPPGGSGGRLPGHRSAPVPTSYEEGLEMPLERRGHR 600
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Db 601 PDSELTHTDDGYMPSFGVAPVPSGRKSGDYMPSPKSVASADQIINPIRRHPQVDPN 660
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Db 661 GYMMSPSGGSPDIGGSPSSSSSSNAVPSGTSYGLMTNGVGHSHVLPHPKPPVS 720
Qy 721 SGGKLPCTGDYMMSPVGDNTSPSDCYGREDPOHKPVLSTYSLPRFKTORPGB 780
Db 721 SGGKLPCTGDYMMSPVGDNTSPSDCYGREDPOHKPVLSTYSLPRFKTORPGB 780
Qy 781 BEGARHQLHLSSTSSGLLYAATDSSSTSSDSCGCGARLPSLPHPHQLQCH 840
Db 781 BEGARHQLHLSSTSSGLLYAATDSSSTSSDSCGCGARLPSLPHPHQLQCH 840
Qy 841 LPRKVDTAQNTSLARPTLSLGDPAKSTLPRAREQQOQOPLHPPEKSGEYVNI 900
Db 841 LPRKVDTAQNTSLARPTLSLGDPAKSTLPRAREQQOQOPLHPPEKSGEYVNI 900
Qy 901 FGSQSGYLGPVAFHSSPSVRCSQLQAPREBETETBYMKDLPGRRAWQSTGV 960
Db 901 FGSQSGYLGPVAFHSSPSVRCSQLQAPREBETETBYMKDLPGRRAWQSTGV 960
Qy 961 EMGRLGAPGAASICRPTAVPSRQDYMTQMCSRCQSYVDTPSPAPVSYADMTGIA 1020
Db 961 EMGRLGAPGAASICRPTAVPSRQDYMTQMCSRCQSYVDTPSPAPVSYADMTGIA 1020
Qy 1021 AEEVSLPRATMAAASSSASASTPQGAALAHSSLLGFGPQFGQMSAFTRVNLSPN 1080
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Qy 1081 RNSGAKYIRADPOGCRHRSSETPSPSATRVNTVPFGAAGAVGGGSSSSSDVVR 1140
Db 1081 RNSGAKYIRADPOGCRHRSSETPSPSATRVNTVPFGAAGAVGGGSSSSSDVVR 1140
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Db 1141 HSSASFNWMLRPELIGAPREPAKLCGAAGLENGINYLIDLVDKQCPQECTPEPQ 1200
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Db 1201 PPPPPHOPLGSGESSSTRSSSEDLASVASISFOKQPEDRQ 1242

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RESULT 2
US-08-557-139-2
; Sequence 2, Application US/08557139
; Patent No. 5827730
; GENERAL INFORMATION:
; APPLICANT: Pedersen, Oluf
; APPLICANT: Bjorbak, Christian
; APPLICANT: Frederiksen, Kathrine A.
; TITLE OF INVENTION: MUTANT DNA ENCODING INSULIN RECEPTOR

```

```

; TITLE OF INVENTION: SUBSTRATE 1
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESS: No. 58277300 No. 5827730disk of No. 5827730th America
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/557,139
; FILING DATE: 12-FEB-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4041.204-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 867-0123
; TELEFAX: (212) 878-9655
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1243 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-557-139-2

Query Match 99.4%; Score 6553.5; DB 2; Length 1243;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1238; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

Qy 1 MASPPESGFDYVRVGYLRKPKMHRFPYLRAASEAGPARLEYENEGKMHKSAP 60
Db 1 MASPPESGFDYVRVGYLRKPKMHRFPYLRAASEAGPARLEYENEGKMHKSAP 60
Qy 61 KASIPLESCEFINRKRAADSKNHLVALYTRDEHPAIAADSEADQSWTQALLQHNRAKH 120
Db 61 KASIPLESCEFINRKRAADSKNHLVALYTRDEHPAIAADSEADQSWTQALLQHNRAKH 120
Qy 121 HDGAALGA-GGGGSGSGSGGLGAGEDLSYGVPPGAPKEYWQVILKPKLGQTKNL 179
Db 121 HDGAALGA-GGGGSGSGSGGLGAGEDLSYGVPPGAPKEYWQVILKPKLGQTKNL 180
Qy 180 IGIVRLCLTSKTSIFVKLNSEAAAVVLQNMNIRCGHSENFPIEVRSAVTGGEFMQ 239
Db 180 IGIVRLCLTSKTSIFVKLNSEAAAVVLQNMNIRCGHSENFPIEVRSAVTGGEFMQ 240
Qy 240 VDDSVAAQNMHTILFARMSDEFPRRSKQSSSNCNPISVLRHRLNPPPSQVGL 299
Db 240 VDDSVAAQNMHTILFARMSDEFPRRSKQSSSNCNPISVLRHRLNPPPSQVGL 300
Qy 300 TRRSRTSITATSPASVWGKPGSFRVPAASDGGMTSRPASVDSVSTRTTHARR 359
Db 300 TRRSRTSITATSPASVWGKPGSFRVPAASDGGMTSRPASVDSVSTRTTHARR 360
Qy 360 RGSARLHPPLNHSRISIMPASRCPSATSPVLSSTSGHSTDCLPFRRSASVSGS 419
Db 360 RGSARLHPPLNHSRISIMPASRCPSATSPVLSSTSGHSTDCLPFRRSASVSGS 420
Qy 420 PSDGFISSDEYSGSPCDFRSFRSVTPDSLGHTPPARGEBELSNYICMGKGPSTLAP 479
Db 420 PSDGFISSDEYSGSPCDFRSFRSVTPDSLGHTPPARGEBELSNYICMGKGPSTLAP 480
Qy 480 NGHYILSRGNGHRCPTGTGLTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKT 539
Db 480 NGHYILSRGNGHRCPTGTGLTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKT 540

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QY 540 PGGSSVASIIEYTEEMPAVPGGGSGRLPGHRHSAFVPTRSYPBEGLEMEHLEERGHH 599
DB 541 PGGSSVASIIEYTEEMPAVPGGGSGRLPGHRHSAFVPTRSYPBEGLEMEHLEERGHH 600
QY 600 RPDSTLHTDDGMPMPSPGVAVPVSGRKSGDYMPPSPKVSAPQOIINPIRRHQVDP 659
DB 601 RPDSTLHTDDGMPMPSPGVAVPVSGRKSGDYMPPSPKVSAPQOIINPIRRHQVDP 660
QY 660 NGYMMSPSGGCSFDIGGGPSSSSSSNNAVPSTYGLKMTNGVGHSHVLPHPKPYE 719
DB 661 NGYMMSPSGGCSFDIGGGPSSSSSSNNAVPSTYGLKMTNGVGHSHVLPHPKPYE 720
QY 720 SSGGKLLPCTGDMNMSPVGDSTNSPDCYGPEDPOHKPVLSTYSLPRSFKHQORPE 779
DB 721 SSGGKLLPCTGDMNMSPVGDSTNSPDCYGPEDPOHKPVLSTYSLPRSFKHQORPE 780
QY 780 PEEGAHQHRLSTSSGRLLYATADSSSTSSDLSGGYCGARLEPSPHHPHQLQP 839
DB 781 PEEGAHQHRLSTSSGRLLYATADSSSTSSDLSGGYCGARLEPSPHHPHQLQP 840
QY 840 HLPKVDTAQNTSRRLARPTRLSGPKASTLPRAEQQOQOQPLHPPEPKSPGEYNI 899
DB 841 HLPKVDTAQNTSRRLARPTRLSGPKASTLPRAEQQOQOQPLHPPEPKSPGEYNI 900
QY 900 EFGSDSGYLSGFVAFHSSPSVRCPSQLQPAFREBEETGEYMKMDLGGPRAAQOESTG 959
DB 901 EFGSDSGYLSGFVAFHSSPSVRCPSQLQPAFREBEETGEYMKMDLGGPRAAQOESTG 960
QY 960 VENGRLGPAPGAASICRPTRAVPSRGDMYTMQSCPRQSYVDTSPPAIVYAMRGIGI 1019
DB 961 VENGRLGPAPGAASICRPTRAVPSRGDMYTMQSCPRQSYVDTSPPAIVYAMRGIGI 1020
QY 1020 AAEVSLPATAAAASSSAASASPTGQGAELAHSLLGAPQPGMSAFTVNLSP 1079
DB 1021 AAEVSLPATAAAASSSAASASPTGQGAELAHSLLGAPQPGMSAFTVNLSP 1080
QY 1080 NNRQSAKVRADQGRRHSETFSSSTPSATRVGNTVPFGAAGVGGGSSSSSEDPK 1139
DB 1081 NNRQSAKVRADQGRRHSETFSSSTPSATRVGNTVPFGAAGVGGGSSSSSEDPK 1140
QY 1140 RHSSAFENVMLRPGELGAPKXPATLCAAGGLENGLYIDLVLKDKQPCOCTEPP 1199
DB 1141 RHSSAFENVMLRPGELGAPKXPATLCAAGGLENGLYIDLVLKDKQPCOCTEPP 1200
QY 1200 QPPPPPPHQLGSGSSSTRESSDLSAYASISFQKQPEDRQ 1242
DB 1201 QPPPPPPHQLGSGSSSTRESSDLSAYASISFQKQPEDRQ 1243

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RESULT 3
US-08-317-310A-15
; Sequence 15, Application US/08317310A
; Patent No. 5858701
; GENERAL INFORMATION:
; APPLICANT: WHITE, Morris F.
; APPLICANT: PIERCE, Jacalyn H.
; TITLE OF INVENTION: THE IRS FAMILY OF GENES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/317,310A

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; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Louis Myers
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: JDP-022
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1234 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-317-310A-15

Query Match 88.0%; Score 5801.5; DB 2; Length 1234;
Best Local Similarity 89.1%; Pred. No. 0;
Matches 110; Conservative 36; Mismatches 83; Indels 17; Gaps 10;

QY 1 MASPPSDGFSVNRKVGYLKPKSMKRRFVLPAASAGAPALEYENKMKRHSAP 60
DB 1 MASPPDIDGFSVNRKVGYLKPKSMKRRFVLPAASAGAPALEYENKMKRHSAP 60
QY 61 KRSTPLESCFINRRADSKKHLYALYTRDEHPALADSBADSWYQALLQHNRAKH 120
DB 61 KRSTPLESCFINRRADSKKHLYALYTRDEHPALADSBADSWYQALLQHNRAKH 120
QY 121 HDGAALGAGGGGSCGSSGLGEGEDLSYGVPQGPAPKEYVQVILKEKGLQGTNLI 180
DB 121 HDGAALGAGGGGSCGSSGLGEGEDLSYGVPQGPAPKEYVQVILKEKGLQGTNLI 180
QY 121 HDGA-----GGCGGSCGSSGVEGEDLSY-DTGPAPAPKEYVQVILKEKGLQGTNLI 175
DB 121 HDGA-----GGCGGSCGSSGVEGEDLSY-DTGPAPAPKEYVQVILKEKGLQGTNLI 175
QY 181 GIVLCITKSTISVKNKNSFAAVYQLMNTIRCGHSENFTEVGSATVGTGEFMMQV 240
DB 181 GIVLCITKSTISVKNKNSFAAVYQLMNTIRCGHSENFTEVGSATVGTGEFMMQV 240
QY 176 GIVLCITKSTISVKNKNSFAAVYQLMNTIRCGHSENFTEVGSATVGTGEFMMQV 235
DB 176 GIVLCITKSTISVKNKNSFAAVYQLMNTIRCGHSENFTEVGSATVGTGEFMMQV 235
QY 241 DDSVAONMHTTILEARMSDEFRPRSKQSSSNCNPISVPLRRHLNPPSOVGLT 300
DB 241 DDSVAONMHTTILEARMSDEFRPRSKQSSSNCNPISVPLRRHLNPPSOVGLT 300
QY 236 DDSVAONMHTTILEARMSDEFRPRSKQSSSNCNPISVPLRRHLNPPSOVGLT 295
DB 236 DDSVAONMHTTILEARMSDEFRPRSKQSSSNCNPISVPLRRHLNPPSOVGLT 295
QY 301 RRSRTESITATSPASMTGKRGSPRVASDGGCTMSRPASVDGSPVSPSTNTHARRH 360
DB 301 RRSRTESITATSPASMTGKRGSPRVASDGGCTMSRPASVDGSPVSPSTNTHARRH 360
QY 296 RRSRTESITATSPASMTGKRGSPRVASDGGCTMSRPASVDGSPVSPSTNTHARRH 355
DB 296 RRSRTESITATSPASMTGKRGSPRVASDGGCTMSRPASVDGSPVSPSTNTHARRH 355
QY 361 GSARLHPPLNHSRIIPWPASRCSFATSPTSLSSTSGHGSTSDCLFPPRSSASVSGSP 420
DB 361 GSARLHPPLNHSRIIPWPASRCSFATSPTSLSSTSGHGSTSDCLFPPRSSASVSGSP 415
QY 356 GSKRLHPPLNHSRIIPWPASRCSFATSPTSLSSTSGHGSTSDCLFPPRSSASVSGSP 415
DB 356 GSKRLHPPLNHSRIIPWPASRCSFATSPTSLSSTSGHGSTSDCLFPPRSSASVSGSP 415
QY 421 SDGPFISDEYSSPCFRSSFRSVTPDSIGHTPPARGEELSNYIMGKGPSTLTAPN 480
DB 421 SDGPFISDEYSSPCFRSSFRSVTPDSIGHTPPARGEELSNYIMGKGPSTLTAPN 480
QY 416 SDGPFISDEYSSPCFRSSFRSVTPDSIGHTPPARGEELSNYIMGKGPSTLTAPN 475
DB 416 SDGPFISDEYSSPCFRSSFRSVTPDSIGHTPPARGEELSNYIMGKGPSTLTAPN 475
QY 481 GHYLSRGNCHRTPTGIGTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKTP 540
DB 476 GHYLSRGNCHRTPTGIGTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKTP 535
QY 541 SQSSVASIEYTEEMPAVPYPPGSGGRLPGHRHSAFVPTRSYBEGLEMEHLEERGHH 599
DB 541 SQSSVASIEYTEEMPAVPYPPGSGGRLPGHRHSAFVPTRSYBEGLEMEHLEERGHH 599
QY 536 SQSSVASIEYTEEMPAVPYPPGSGGRLPGHRHSAFVPTRSYBEGLEMEHLEERGHH 595
DB 536 SQSSVASIEYTEEMPAVPYPPGSGGRLPGHRHSAFVPTRSYBEGLEMEHLEERGHH 595
QY 600 RPDSTLHTDDGMPMPSPGVAVPVSGRKSGDYMPPSPKVSAPQOIINPIRRHQVDP 659
DB 600 RPDSTLHTDDGMPMPSPGVAVPVSGRKSGDYMPPSPKVSAPQOIINPIRRHQVDP 655
QY 659 RPDSTLHTDDGMPMPSPGVAVPVSGRKSGDYMPPSPKVSAPQOIINPIRRHQVDP 655
DB 659 RPDSTLHTDDGMPMPSPGVAVPVSGRKSGDYMPPSPKVSAPQOIINPIRRHQVDP 655
QY 660 NGYMMSPSGGCSFDIGGGPSSSSSSNNAVPSTYGLKMTNGVGHSHVLPHPKPYE 719
DB 660 NGYMMSPSGGCSFDIGGGPSSSSSSNNAVPSTYGLKMTNGVGHSHVLPHPKPYE 719
QY 656 NGYMMSPSGGCSFDIGGGPSSSSSSNNAVPSTYGLKMTNGVGHSHVLPHPKPYE 714
DB 656 NGYMMSPSGGCSFDIGGGPSSSSSSNNAVPSTYGLKMTNGVGHSHVLPHPKPYE 714
QY 720 SSGGKLLPCTGDMNMSPVGDSTNSPDCYGPEDPOHKPVLSTYSLPRSFKHQORPE 779
DB 715 SSGGKLLPCTGDMNMSPVGDSTNSPDCYGPEDPOHKPVLSTYSLPRSFKHQORPE 774

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QY 780 PEEGARHQLRLSTSSGRLLYAATADSSSTSDSLGGYCGARLEPSPHPHRYQLQP 839
 DB 775 PEEGARHQLRLSTSSGRLRYTATADSSSTSDSLGGYCGARLEPSPHPHRYQLQP 834
 QY 840 HLPKRVDTAQTNSRLARPTLSTLGDPRASLTPARARQQQQQQLLHPPEKSPGEYVNI 839
 DB 835 HLPKRVDTAQTNSRLARPTLSTLGDPRASLTPARARQQQQQQLLHPPEKSPGEYVNI 834
 QY 900 EFGSDQGYLSPVAFHSSPSVRCPSQLOPAPREETGTEEMKMDLGPGRRAWQESTG 959
 DB 895 EFGSDQGYLSPVAFHSSPSVRCPSQLOPAPREETGTEEMKMDLGPGRRAWQESTG 953
 QY 960 VEMGRGLPAPPGAAASICRPTRAVPSRQDYMOMSCPROSYVDTSPAAYSYADMRTGI 1019
 DB 954 VELGIGPAPPGAAASICRPTRAVPSRQDYMOMSCPROSYVDTSPAAYSYADMRTGI 1013
 QY 1020 AAEVSLPRTMAAASSSASASAPT-GPOGA-AELAASLGGPQPGGMAFTPVNL 1077
 DB 1014 AAEVSLPRTMAAASSSASASAPT-GPOGA-AELAASLGGPQPGGMAFTPVNL 1073
 QY 1078 SPNNQAKVIRADPQCCRRHSETSTPSATRVGVYVFPAGAAVGG-GGGSSSSSE 1136
 DB 1074 SPNNQAKVIRADPQCCRRHSETSTPSATRVGVYVFPAGAAVGG-GGGSSSSSE 1130
 QY 1137 DVKSHSASFENWMLRPGELGAPREPAKLGAAGLENGLYIDLVLVDFKQCPQECT 1196
 DB 1131 DVKSHSASFENWMLRPGELGAPREPAKLGAAGLENGLYIDLVLVDFKQCPQECT 1187
 QY 1197 PEPDPPPPPHQPLGSGESSSTRSSSEDLASVAFSIFQKQPEDRQ 1242
 DB 1188 SQQOSLPPPPHQPPLGSGESSSTRSSSEDLASVAFSIFQKQPEDRQ 1233

RESULT 4

PCT-US95-13041-15
 Sequence 15, Application PC/TUS9513041
 GENERAL INFORMATION:
 APPLICANT: WHITE, Morris F.
 APPLICANT: SUN, Xiao Jian
 APPLICANT: PIERCE, Jacalyn H.
 TITLE OF INVENTION: THE IRS FAMILY OF GENES
 NUMBER OF SEQUENCES: 63
 CORRESPONDENCE ADDRESS:
 ADDRESS: LAHIVE & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/13041
 FILING DATE: Herewith
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/317,310
 FILING DATE: 03-OCT-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Louis Myers
 REGISTRATION NUMBER: 35,965
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1234 amino acids
 TYPE: amino acid
 TOPOLOGY: linear

MOLECULE TYPE: peptide
 FRAGMENT TYPE: internal
 PCT-US95-13041-15
 Query Match
 Best Local Similarity 89.1%; Pred No. of
 Matches 1110; Conservative 36; Mismatches 83; Indels 17; Gaps 10;
 1 MASPESDGSDVRKVGYLIRKPKSMHKEFYLLRAASEAGPARLEYENKKMKRHSAP 60
 1 MASPESDGSDVRKVGYLIRKPKSMHKEFYLLRAASEAGPARLEYENKKMKRHSAP 60
 61 KRSLPESCFENKRAADSKNKLVLVLRDEHFAALADSEADSWYALQLHNRACAH 120
 61 KRSLPESCFENKRAADSKNKLVLVLRDEHFAALADSEADSWYALQLHNRACAH 120
 121 HDGAALAGAGGGGSGSGSLGEAGEDLSYGDVPPGAPREVMQVILKPKLGGTKNLI 180
 121 HDGAALAGAGGGGSGSGSLGEAGEDLSYGDVPPGAPREVMQVILKPKLGGTKNLI 175
 181 GYRLCTSKTISFYKLSSEAAVYLOLMTNRCHSENFPIEYGRGAVTGPGEFMQV 240
 176 GYRLCTSKTISFYKLSSEAAVYLOLMTNRCHSENFPIEYGRGAVTGPGEFMQV 235
 241 DSVVAQNNHETILAMRAMSDEFPRRSKSSNSCNPISVPLRRHLNPPSQVGLT 300
 236 DSVVAQNNHETILAMRAMSDEFPRRSKSSNSCNPISVPLRRHLNPPSQVGLT 295
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 296 RRSRTESITATSPAMWGKPGSFVRYASSDGEGTMSRPASVDGSPVSPSTRTTAHNR 355
 361 GSARLHPPLNHRSLIPMPASRCSPATSPVLSSTSGHSTSDCLPRRSSASVSGSP 420
 356 GSARLHPPLNHRSLIPMPASRCSPATSPVLSSTSGHSTSDCLPRRSSASVSGSP 415
 421 SDGFTISDEYSSPCDFRSPFRSVTPSLGHTPPARCEBELSNYICMGKQPSLTLPN 480
 416 SDGFTISDEYSSPCDFRSPFRSVTPSLGHTPPARCEBELSNYICMGKQPSLTLPN 475
 481 GHYILSRGNGHRCPTGTLGTPALADGEAASADLNNRFRKTHSAGSTPTTHQCTP 540
 476 GHYILSRGNGHRCPTGTLGTPALADGEAASADLNNRFRKTHSAGSTPTTHQCTP 535
 541 SSSVASTIEYTEWMP-AVPPGSGSGRLPGHRHSAFVPTSYPEELGEMPLERRGGH 599
 536 SSSVASTIEYTEWMP-AVPPGSGSGRLPGHRHSAFVPTSYPEELGEMPLERRGGH 595
 600 RPDSTLHTDDGYMSPGVAVPSPGRKSGDYMSPKSYASAPQIINPIRRHQRVDP 659
 596 RPDSTLHTDDGYMSPGVAVPSPGRKSGDYMSPKSYASAPQIINPIRRHQRVDP 655
 660 NGYMMSPSGGSPIDIGGPPSSSSSSNAVPSGTGKLMTNGVGHSHVLPHPKPYVE 719
 656 NGYMMSPSGGSPIDIGGPPSSSSSSNAVPSGTGKLMTNGVGHSHVLPHPKPYVE 714
 720 SSGKLLPCTGDYMMSPVGDNTSSPSDCYGPEDPQHKPLSTYSYLPRSKTORGE 779
 715 SSGKLLPCTGDYMMSPVGDNTSSPSDCYGPEDPQHKPLSTYSYLPRSKTORGE 774
 780 PEEGARHQLRLSTSSGRLLYAATADSSSTSDSLGGYCGARLEPSPHPHRYQLQP 839
 775 PEEGARHQLRLSTSSGRLRYTATADSSSTSDSLGGYCGARLEPSPHPHRYQLQP 834
 QY 840 HLPKRVDTAQTNSRLARPTLSTLGDPRASLTPARARQQQQQQLLHPPEKSPGEYVNI 839
 DB 835 HLPKRVDTAQTNSRLARPTLSTLGDPRASLTPARARQQQQQQLLHPPEKSPGEYVNI 834
 QY 900 EFGSDQGYLSPVAFHSSPSVRCPSQLOPAPREETGTEEMKMDLGPGRRAWQESTG 959
 DB 895 EFGSDQGYLSPVAFHSSPSVRCPSQLOPAPREETGTEEMKMDLGPGRRAWQESTG 953
 QY 960 VEMGRGLPAPPGAAASICRPTRAVPSRQDYMOMSCPROSYVDTSPAAYSYADMRTGI 1019

Db 954 VELGRIGAPPGATATCRPTFRSVNSRGDMTQICPQOSYDTSFVA PVASADMRTSI 1013
 Qy 1020 AAEVSLPRITMAAASSSAASAP-GRGA-AELAAHSSLIGSGGSGMSAFTRVNL 1077
 Db 1014 AAKASLPRPTGAAPPSSSTASSASVTPQGAATBQATHSSLGGFGGSGMSAFTRVNL 1073
 Qy 1078 SPNRNOSAKYIRADPOGCRHRHSETFSSTPSATRVGNTVPFGAGAAVGG-GGSSSSSE 1136
 Db 1074 SPNHNOSAKYIRADPOGCRHRHSETFS---APTAAGNTVPFGAGAAVGGGGGGGSGSE 1130
 Qy 1137 DVKRRHSSASFNWLRPGLGAPKBPACLCGAAGLENGLNTIDLVDFKQCPQECT 1196
 Db 1131 DVKRRHSSASFNWLRPGLGAGVSKSAPVCGAAGGLEKSLNTIDLVDFKQCPQECT 1187
 Qy 1197 PEPQPPPPPHOPLGSGSSSTRSSEDLASAYASISFOKQPEDRQ 1242
 Db 1188 SQQOSLPPPPHOPPLGSGNSFRSSEDLNYSISFOKQPEDRQ 1233

RESULT 5
 US-08-094-948A-29
 ; Sequence 29, Application US/08094948A
 ; Patent No. 5621075
 ; GENERAL INFORMATION:
 ; APPLICANT: Kahn, C. Ronald
 ; APPLICANT: White, Morris F.
 ; APPLICANT: Rothenberg, Paul Louis
 ; TITLE OF INVENTION: INSULIN RECEPTOR SUBSTRATE
 ; NUMBER OF SEQUENCES: 29
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Lahive & Cockfield
 ; STREET: 60 State Street, Suite 510
 ; CITY: Boston
 ; STATE: Massachusetts
 ; COUNTRY: U.S.A.
 ; ZIP: 02109
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/094,948A
 ; FILING DATE: 21-JULY-1993
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/643,982
 ; FILING DATE: 18-JAN-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Myers, Louis (PLM)
 ; REGISTRATION NUMBER: 35,965
 ; REFERENCE/DOCKET NUMBER: JDP-013DV
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (617)227-7400
 ; TELEFAX: (617)227-5941
 ; INFORMATION FOR SEQ ID NO: 29:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1155 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-094-948A-29

Query Match 80.3%; Score 5336.5; DB 1; Length 1155;
 Best Local Similarity 82.8%; Pred. No. 0;
 Matches 1033; Conservative 33; Mismatches 84; Indels 97; Gaps 10;

Qy 1 MASPPSDGSDVDRKYGILAKPKSMKRPVFLRAASEAGAPALLEYENKMKRHSAP 60
 Db 1 MASPPSDGSDVDRKYGILAKPKSMKRPVFLRAASEAGAPALLEYENKMKRHSAP 60
 Qy 61 KRSLPLESCFNINKRADSKNKHVALYTRDEHFAIAADSEADSDVYQALLQLHRAKGH 120

Db 61 KRSLPLESCFNINKRADSKNKHVALYTRDEHFAIAADSEADSDVYQALLQLHRAKGH 120
 Qy 121 HDGAALAGAGGGGCGGSSGSLGAGBDLSYGDPVPPAPKRWQVILKRGGLQCTNLI 180
 Db 121 HDGA---GGGCGGSCGSSGSGVAGBDLSL-DGPPAPKRWQVILKRGGLQCTNLI 175
 Qy 181 GYVRLCLTSKTIISFVKLNSEAAVVLQMLNIRRCGSENEFFLEVGRSAVTGPEFWMQV 240
 Db 176 GYVRLSLTSKTIISFVKLNSEAAVVLQMLNIRRCGSENEFFLEVGRSAVTGPEFWMQV 212
 Qy 241 DQSVAAQMAETIIEAMPASDERPPRSKQSSGNCNPISVPLRRHLLNPPSQVGLT 300
 Db 213 -----RAMSHEPRPRTKSQSSSCSNPISVPLRRHLLNPPSQVGLT 255
 Qy 301 RRSRTESITATSPASMTGKPKSPRVVASSDGEETMRPASVDS PVSPTNRTHARRH 360
 Db 256 RRSRTESITATSPASMTGKPKSPRVVASSDGEETMRPASVDS PVSPTNRTHARRH 315
 Qy 361 GSARLHPPLNHSRIIMPASRCPSPATSPVSLSSSTSGHGSTDCLPRRSSASVSGSP 420
 Db 316 GSSRLHPPLNHSRIIMPASRCPSPATSPVSLSSSTSGHGSTDCLPRRSSASVSGSP 375
 Qy 421 SDGGFISDEYSGSPCDPRSSFRSVTPDSIGHTPARGEELSYICMGKGPELTAPN 480
 Db 376 SDGGFISDEYSGSPCDPRSSFRSVTPDSIGHTPARGEELSYICMGKGPELTAPN 435
 Qy 481 GHYILSRGNGRCHTPTGTGTSPLAAGDEAASADLDNRKRTKTHAGTSPTTHQKTP 540
 Db 436 GHYILSRGNGRCHTPTGTGTSPLAAGDEAAGADLDNRKRTKTHAGTSPTTHQKTP 495
 Qy 541 SOSVASTIEETEMPP-AVPPGSGGRLPCHRSATVPPRSYPERGLNEMPLERRGHN 599
 Db 496 SOSVASTIEETEMPPAVPPGSGGRLPCHRSATVPPRSYPERGLNEMPLERRGHN 555
 Qy 600 RPDSTLHTDDGYNMPSPGVAVPVSGRKSGSDGYNMPKSVASAPQIINPIRRAPORVP 659
 Db 556 RPDSTLHTDDGYNMPSPGVAVPVSGRKSGSDGYNMPKSVASAPQIINPIRRAPORVP 615
 Qy 660 NGYMMMSRSGGCSDDIGGPPSSSSSSNANVBSGYSYKLTNNGYGHSHLPHPKPVE 719
 Db 616 NGYMMMSRSGGCSDDIGG--SCSSSSISAAAGSGSYKPMNNGYGHSHLPHPKPVE 674
 Qy 720 SSGGLLPCTDYNMSPVGDNTSSPSDCCYGGEDQHKVLSYSLPSPFKTORPGE 779
 Db 675 SSGGLLPCTDYNMSPVGDNTSSPSDCCYGGEDQHKVLSYSLPSPFKTORPGE 734
 Qy 780 PEEGARHQLRLSTSGRLLYAATADSSSTSSDSTGGGCGARLEBSLPHPHQVLP 839
 Db 735 PEEGARHQLRLSTSGRLRYTATADSSSTSSDSTGGGCGARLEBSLPHPHQVLP 794
 Qy 840 HLPKRVDTAAQTNRLARPTRLSLGDPKASTLPARE-----QQQQQOPLHPPPKPGE 895
 Db 795 HLPKRVDTAAQTNRLARPTRLSLGDPKASTLPARE-----QQQQQOPLHPPPKPGE 854
 Qy 896 YNIEFSGDSGYLSGPVAFHSSPVCSQSLQAPAREEETGTEYKMDIGCPGRRAWQ 955
 Db 855 YNIEFSGDSGYLAGATSSSPSVCLPLHAPAR-EETGSEYKMDIGCPGRRAWQ 913
 Qy 956 ESTGVEMRGLGAPAPGAASICRPTRAVPSSRGDMTQICPQOSYDTSFVAADVAD 1015
 Db 914 ESTGVEMRGLGAPAPGAASICRPTRAVPSSRGDMTQICPQOSYDTSFVAADVAD 973
 Qy 1016 RTGIAAEVSLPRITMAAASSSAASAPPTGPOGAELAAHSSLIGFGGSGMSAFTRV 1075
 Db 974 RTGIAAEVSLPRITMAAASSSAASAPPTGPOGAELAAHSSLIGFGGSGMSAFTRV 1001
 Qy 1076 NLSNRNOSAKYIRADPOGCRHRHSETFSSTPSATRVGNTVPFGAGAAVGGGGSSSS 1135
 Db 1002 -----ASVAVIRADPOGCRHRHSETFS---APTAAGNTVPFGAGAAVGGGGSSSS 1048
 Qy 1136 EDVRRHSSASFNWLRPGLGAPKBPACLCGAAGLENGLNTIDLVDFKQCPQECT 1195
 Db 1049 EDVRRHSSASFNWLRPGLGAGVSKSAPVCGAAGGLEKSLNTIDLVDFKQCPQECT 1108

Qy 1196 TPEOPPPPPHOPPLGSGSSSTRRSSEDLASAYASISFOKOPEDRQ 1242
 Db 1109 PSQOQSLEPPPPHOPPLGSGSSSTRRSSEDLSTASINIFOKOPEDRQ 1155

RESULT 6
 PCT-US96-09319-29
 Sequence 29, Application PC/TUS9609319
 GENERAL INFORMATION:
 APPLICANT: Kahn, C. Ronald
 APPLICANT: White, Morris F.
 APPLICANT: Rothenberg, Paul Louis
 TITLE OF INVENTION: INSULIN RECEPTOR SUBSTRATE
 NUMBER OF SEQUENCES: 29
 CORRESPONDENCE ADDRESS:
 ADDRESS: Lathive & Cockfield
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US96/09319
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/094,948
 FILING DATE: 21-JULY-1993
 APPLICATION NUMBER: US 07/643,962
 FILING DATE: 18-JAN-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Myers, Louis (PLM)
 REGISTRATION NUMBER: 35,965
 REFERENCE/DOCKET NUMBER: JDP-013DV
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 29:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1155 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 PCT-US96-09319-29

Query Match 80.9%; Score 5336.5; DB 5; Length 1155;
 Best Local Similarity 82.8%; Pred. No. 0;
 Matches 1033; Conservative 33; Mismatches 84; Indels 97; Gaps 10;
 Qy 1 NASPESDSESVRKVYRKPKSMKRFVYLRASSEAGPARLEYENKKMKHSAP 60
 Db 1 NASPDTDFSVRKVYRKPKSMKRFVYLRASSEAGPARLEYENKKMKHSAP 60
 Qy 61 KASIPLESFENINKKADSNKRLVALYTRDEHFALADSEABQDSWYQALLQHNRAKH 120
 Db 61 KASIPLESFENINKKADSNKRLVALYTRDEHFALADTEABQDTWYQALLQHNRAKH 120
 Qy 121 HGGAAALGGGGGGGSGSSGGEAGEDELSTVDGVPAPAPKKEVMWVILKPGIGQTKLI 180
 Db 121 HGGAAALGGGGGGGSGSSGGEAGEDELSTVDGVPAPAPKKEVMWVILKPGIGQTKLI 175
 Qy 181 GIYRLCTTSKTIISFYVLSSEAAVYVQLNNIRCGHSENFPEIEVGRSAVTGPGEFMNV 240
 Db 176 GIYRLSTLTKTISFYVLSSEAAVYVQLNNIRCGHSENFPEIEVGRSAVTGPGEFMNV 212
 Qy 241 DSVVAQNHHETILEMRRMSDEFRPRSSQSSSNCSNPISVPLRRHLNPPSPQVGLT 300
 Db 213 -----RAMSHFRPRTKXSSSSSCSNISVPLRRHLNPPSPQVGLT 255

Qy 301 RSRRTESITATSPASWVGKPGSFVRVRSIDEGTMSRPASVDGSPVSPSTNRTAHRH 360
 Db 256 RSRRTESITATSPASWVGKPGSFVRVRSIDEGTMSRPASVDGSPVSPSTNRTAHRH 315
 Qy 361 GSKRLHPPLNHSRSLTMAPASRCSPATBPVSLSSSSTSGHSTDCLPFRBSASVSGP 420
 Db 316 GSKRLHPPLNHSRSLTMAPASRCSPATBPVSLSSSSTSGHSTDCLPFRBSASVSGP 375
 Qy 421 SDGFISSDEYSSPCDFRSPFRSVTPDSLGHTPPACGEELSNYICMGKSPSTLTAPN 480
 Db 376 SDGFISSDEYSSPCDFRSPFRSVTPDSLGHTPPACGEELSNYICMGKSPSTLTAPN 435
 Qy 481 GHYILSRGNGHRTCTGTGLTSPALAGDEAASADLNRPRKTHSAGTSTTYHOKTP 540
 Db 436 GHYILSRGNGHRTCTGTGLTSPALAGDEAASADLNRPRKTHSAGTSTTYHOKTP 495
 Qy 541 SQSSVASIEYTEMMP-AAPPGGSGRLPGHRHSFVPTRSYPEGLEMLERGGH 599
 Db 496 SQSSVASIEYTEMMPAAPPGGSGGRLPGHRHSFVPTRSYPEGLEMLERGGH 555
 Qy 556 RPDSTLTHTDDGYMPSGVAPVPSGRKSGSDYMPKSVSAPOQIINPIRRHPQVDP 615
 Db 600 RPDSTLTHTDDGYMPSGVAPVPSGRKSGSDYMPKSVSAPOQIINPIRRHPQVDP 659
 Qy 616 NGYMMMSPSGSCSPDLCGG-SCSSSISAPBSGSSYKRWTVNGVGHHTALPHAKEPV 674
 Db 660 NGYMMMSPSGSCSPDLCGG-SCSSSISAPBSGSSYKRWTVNGVGHHTALPHAKEPV 719
 Qy 720 SSGKLLPCTGDYMNSSPVGDSNTSSPSDCTYGPEDPQHKPVLYSTSLRSTKHTORPGE 779
 Db 675 SSGKLLPCTGDYMNSSPVGDSNTSSPSDCTYGPEDPQHKPVLYSTSLRSTKHTORPGE 734
 Qy 780 PEEGARHOLRLSTSGRLLYAATDSSSTSSSGLGGYGGARLEPSLPHHOVLDP 839
 Db 735 PEEGARHOLRLSTSGRLLYAATDSSSTSSSGLGGYGGARLEPSLPHHOVLDP 794
 Qy 840 HLPKRYDTAQTNSRLARPTRLSLGDPKASTLPRAE-----QQQQQPLHPPEKSPGE 895
 Db 795 HLPKRYDTAQTNSRLARPTRLSLGDPKASTLPRAE-----QQQQQPLHPPEKSPGE 854
 Qy 896 YNIIERGSOSGLSPVAFHSSPSYRCSPQOPAREEETGTEETMKDLPGRRAAQ 955
 Db 855 YNIIERGSOSGLSPVAFHSSPSYRCSPQOPAREEETGTEETMKDLPGRRAAQ 913
 Qy 956 ESTGEMGRGPAPPAASICRPTTRAVPSRSGDYTMQMSCPROSYVDTSPAPVYADM 1015
 Db 914 ESTGEMGRGPAPPAASICRPTTRAVPSRSGDYTMQMSCPROSYVDTSPAPVYADM 973
 Qy 1016 RTGIAAEVSLPPTAATAAASSSSAASASTTGQAAELAAHSLGPGPGGMSAFTRY 1075
 Db 974 RTGIAAEVSLPPTAATAAASSSSAASASTTGQAAELAAHSLGPGPGGMSAFTRY 1001
 Qy 1076 NLSFNNOSAKVIRADPOGCRHRSSEFSTSATRVGNTVFGAGAAVGGGGSSSSS 1135
 Db 1002 -----ASVKYIRATQCGRRHSEFSTSATRVGNTVFGAGAAVGGGGSSSSS 1048
 Qy 1136 EDYKRHSASFEVNVLPGLGAPKPEPAKLCGAGAGLENGLYITLDLYKDFKQPOGC 1195
 Db 1049 EDYKRHSASFEVNVLPGLGAPKPEPAKLCGAGAGLENGLYITLDLYKDFKQPOGC 1108
 Qy 1196 TPEOPPPPPHOPPLGSGSSSTRRSSEDLASAYASISFOKOPEDRQ 1242
 Db 1109 PSQOQSLEPPPPHOPPLGSGSSSTRRSSEDLSTASINIFOKOPEDRQ 1155

RESULT 7
 US-08-317-310A-64
 Sequence 64, Application US/08317310A
 Patent No. 5858701
 GENERAL INFORMATION:
 APPLICANT: WHITE, Morris F.
 APPLICANT: SUN, Xiao Jian

FILING DATE: Herewith
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/317,310
 FILING DATE: 03-OCT-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Louis Myers
 REGISTRATION NUMBER: 35,965
 REFERENCE/DOCKET NUMBER: JDP-022PC
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1321 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 PCT-US95-13041-16

Query Match 23.0%; Score 1519; DB 5; Length 1321;
 Best Local Similarity 36.9%; Pred. No. 2.1e-100;
 Matches 463; Conservative 8; Mismatches 565; Indels 220; Gaps 39;

13 VRKVGTLRKRKSKHKEFVLR-----ASENG-----PALEYENKRRKHSAPK 61
 31 VRKXGTLRKKKKXKHKRFVLRXXXXXXXXXXASXAGXXXXXPRLEYEKKKRXXXXAPK 90
 62 RSIPLESCEINIKRADSKNKLVALYTRDEHFAIADSEAPQDWTYQALLQHNPAKH 121
 91 RXIXLXCKXNINRAIXKKXKLALYTBEXFAAXXEXXEXXWYALXIXLXXXX- 146
 122 DGAALGAGGGGGSS-----GSSGLGAGEDLSYGDVPPGPAFKVWQYILKPKL 173
 147 -XXXXXXGXGXGSGSXXXXXXXXXXGXG-XXXXXXXXXXXTXXXXXXVWQYILKPKL 204
 174 GQTKNLIGIYRLCLTSTKTSIFVKLNSEAAVVLQLNINIRCGHSENFIEVGRSAVTGP 233
 205 GQKMLXGXYRLCLXXXTIFVNLNEXXXVXQLNINIRCGHSAFFIEVGRSAVTGP 264
 234 GEFWQVDDSVVAQNNHETILEMRA--NSDEPRPSKQSS-SNCSNIPSP--LRNH 288
 265 GEXWQXDDSVVAQNNHETILEMRA--NSDEPRPSKQSS-SNCSNIPSP--LRNH 324
 289 LNNPPSOVGLTRRSRTSITATSPAMVCGKPGSPVASSGEG-----TWSRPA 340
 325 LXXHPSQXGLXRRSRTSITATSPAMVCGKPGSPVASSGEG-----TWSRPA 380
 341 SYDGSFVSPSTNETHAHRHNSA-----RLHPPLNHSSSIPMPASRCSPSAT 387
 381 SVXGSPSPXXXXXXRXKXXXXXXSXXXXXXXXXXXXXXXXXXLHSSSXXMPXXXXXPAT 440
 388 SPVLSSSSTSGHGS-----TSDCLP-----RSSSVSGSPSDGGLISDDY 431
 441 SPVLSSSSTSGHGS-----TSDCLP-----RSSSVSGSPSDGGLISDDY 500
 432 GSSPCDFR--SFSRVTPLSLGHTPPAR--GEELSNYICMGKGPSTLTAPEGHILSR 487
 501 GSSPFDXRXKXSRSKXTPKXKXTTPARXXXXXXXXELXXXXM-----XXLSX 547
 488 GGNHCTPGTGLGTSTALAGDAASADLDNRFRKRTSAGTSPTITQKTPSGSVAS 547
 548 XGXXHXXXXXG-----AXDLDXXXXRRRTSXHTYXXXXXO--XQXSXS 590
 548 IEEYTEMMPAYPPGGSGGRL--FGHNSAFVPTRSYPERGLEMHLEBRGCHRRDSST 605
 591 XXEYTMKXA--XSGSGRLXKXXXXXXSXXXXXXXXPEX-----XXXXGHNXXXXN 642
 606 LHHDDGTMSPGVY--PVPSGRKSGDYMPSPKVSAPQIINIRHPOQVDPNGYM 663
 643 LXXDDGTMPPFAAAXXXXXXXNXXDDYMPSPXSAPXQIXP--EXXXXXXXEXGX 700
 664 MNSP--SGGSPDIGGPPSSSSSSNAVPSTGTSYGLKMTNGVGHHSHVLPHPKPEVSS 721

701 XXXXXXXXXXXXXXXGXXXXXSXXXXXPXXSXXXXXWXXX-----KXXEXX 748
 722 GSKLPLCTGDMNMSPIVGDNT-----SSPDCYGPEDPHKRPVLSYSLPSPFKTHQR 777
 749 XXXLPL-XGDYXNNSPXXXXXXXPPXXXXXXXGXKXXXXXXPPXXYSLPSSKXXXX- 806
 778 GEPEGARHCHLRLSTSGRLLYATADSSSTSPSDSLGCGYCGALBPSLPHPH-- 834
 807 ---XGXXXXXQXXXXXSXXXXXGXXXXXGXXXXXGXXXXXGXXXXXGXXXXXGXXXXX 856
 835 --QVLOPHLPKVTDTAAQTMNSRLARPPRLSLGDPKASTLPRAEQOQOQPLHPPPKS 892
 857 XXXXXXXXXXXXXXXXXXXXXXXXKXRPRLSLX--XXXTLPXXXE-----XXXPXPKS 907
 893 PGEYVNIIEFGSDQ-----GYLGPVAFHSSPSVRCP-----SQLQPAPEEETGT 938
 908 PGEYXNIXFGXXXXXXXXXXXXXPKLAXAXASXSSXKXPPXXXXXXXXXXTXSXXXXXXX 967
 939 EEFYKMDIGPGRRAWQESTGVENG-----RLGPAPGAASTCPTRAVPSS 985
 968 XXXXXXXXKXXXXXXXXXXXXXGXXXXXKXXXXXXXXXXXXXKXXXXXXXXXXXXXPPX 1027
 986 RGDYMTQMSGPRQSYDTSPAPVSYADMRTGIAEVSU---PRATMAAASSSGAAS 1041
 1028 XGDXXXXXXXXXXXXXKXXXXXKXXXXXKXXXXXKXXXXXKXXXXXKXXXXXKXXXXX 1087
 1042 ASPTPOGAMELAHSILGPOGPGMSAFTRVNLSPNNQSAKVIADPOGGRHSS 1101
 1088 XXXXXXXXXXXXXXXXKXXXXXKXXXXXKXXXXXKXXXXXKXXXXXKXXXXXKXXXXX 1138
 1102 ETPSSTPATVGTVPFGAGAAVGGGSSSSSEVYKHSASFEVWMLRPGELG 1157
 1139 ETPS--XKTXXXXXXPPXXXXX-----KRHSASXENVXKLXXXXG 1177

RESULT 10

US-09-508-691-5
 Sequence 5, Application US/09508691

Patent No. 6498139
 GENERAL INFORMATION:
 APPLICANT: YAZAKI, YOSHIO
 APPLICANT: ASANO, TOMOICHIRO
 APPLICANT: KUBO, HIDEO
 APPLICANT: KANDA, AKIRA
 TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE
 FILE REFERENCE: 4895-0019-0PCT
 CURRENT FILING DATE: US/09/508,691
 PRIOR FILING DATE: 2000-03-29
 PRIOR APPLICATION NUMBER: PCT/JP98/04293
 PRIOR FILING DATE: 1998-09-25
 PRIOR APPLICATION NUMBER: JP9-263719
 NUMBER OF SEQ ID NOS: 5
 SOFTWARE: Patent version 3.0
 SEQ ID NO 5
 LENGTH: 159
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-508-691-5

Query Match 9.0%; Score 590.5; DB 4; Length 159;
 Best Local Similarity 73.6%; Pred. No. 5.5e-35;
 Matches 117; Conservative 18; Mismatches 19; Indels 5; Gaps 3;

162 EWMQYILKPKLIGTQKLIIGYRLCLTSTKTSIFVKLNSEAAVVLQLNINIRCGHSENF 221
 1 EWMQYILKPKLIGTQKLIIGYRLCLTSTKTSIFVKLNSEAAVVLQLNINIRCGHSENF 60
 222 FIEVGRSAVTGPGEFMQVDDSVVAQNNHETILEMRA--NSDEPRPSKQSS-SNCSN 278
 61 FIEVGRSAVTGPGEFMQVDDSVVAQNNHETILEMRA--NSDEPRPSKQSS-SNCSN 315
 279 FIVSP--LRHNLNPPSOVGLTRRSRTSITATSPAS 315

Thu Jul 1 10:07:52 2004

us-09-903-063-5.ra1

Page 10

Db 121 FIVSGARRHHVNLVLPSPQGLVTRKSTDSLATPPAA 159

RESULT 11
US-09-284-033-8

Sequence 8, Application US/09284033

Patent No. 6194173

GENERAL INFORMATION:

APPLICANT: Czean, Michael P. and Klarlund, Jes K.

TITLE OF INVENTION: BINDING PROTEINS FOR PHOSPHONITRIDES, GRP1 OR GENERAL RECEPTOR

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 28 STATE STREET

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/284,033

FILING DATE: 1999-04-06

CLASSIFICATION: 5.4

PRIOR APPLICATION DATA:

APPLICATION NUMBER: USSN. 08/729,834

FILING DATE: 07 OCTOBER 1996

APPLICATION NUMBER: PCT/US97/18152

FILING DATE: 1997-10-07

ATTORNEY/AGENT INFORMATION:

NAME: MANDRAGOURAS, AMY E.

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: UMW-018C2US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)742-4214

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 113 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-09-284-033-8

Query Match

Best Local Similarity 99.1%; Pred. No. 7.1e-35;

Matches 111; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Db 1

67 SDGSDVRKVGILRPKSKMHRFFVLRASEAGGPARLEYENKKMKHKSAPRSTPL 66

1 TDGSDVRKVGILRPKSKMHRFFVLRASEAGGPARLEYENKKMKHKSAPRSTPL 60

67 ESCFNINKKADSKNKLVALYTRDEHFALADSEAEQDSWYQALLQLHNRAK 118

61 ESCFNINKKADSKNKLVALYTRDEHFALADSEAEQDSWYQALLQLHNRAK 112

US-08-729-834B-8

Sequence 8, Application US/08729834B

Patent No. 6221841

GENERAL INFORMATION:

APPLICANT: Czean, Michael P.

APPLICANT: Klarlund, Jes K.

TITLE OF INVENTION: General Receptors for Phosphonitrides

TITLE OF INVENTION: and Uses Related Thereto

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 28 State Street

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/729,834B

FILING DATE: October 7, 1996

CLASSIFICATION: 5.36

ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Mandragouras

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: UMW-018

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 113 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-729-834B-8

Query Match

Best Local Similarity 99.1%; Pred. No. 7.1e-35;

Matches 111; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Db 1

67 SDGSDVRKVGILRPKSKMHRFFVLRASEAGGPARLEYENKKMKHKSAPRSTPL 66

1 TDGSDVRKVGILRPKSKMHRFFVLRASEAGGPARLEYENKKMKHKSAPRSTPL 60

67 ESCFNINKKADSKNKLVALYTRDEHFALADSEAEQDSWYQALLQLHNRAK 118

61 ESCFNINKKADSKNKLVALYTRDEHFALADSEAEQDSWYQALLQLHNRAK 112

US-08-980-523-10

Sequence 10, Application US/08980523

Patent No. 6310181

GENERAL INFORMATION:

APPLICANT: Kouhara, Haruhiko

APPLICANT: Spiyak-Kroizman, Taly

APPLICANT: Lax, Iril

APPLICANT: Schlesinger, Joseph

TITLE OF INVENTION: ADAPTOR PROTEIN FR32 AND

TITLE OF INVENTION: RELATED PRODUCTS AND METHODS

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

STREET: Suite 4700

CITY: Los Angeles

STATE: California

COUNTRY: U.S.A.

ZIP: 90071-2066

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB

COMPUTER: IBM compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: FastSeq for Windows 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/980,523

FILING DATE: December 1, 1997

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/21851
FILING DATE: December 1, 1997
APPLICATION NUMBER: 60/032,093
FILING DATE: December 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Wardburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/045
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-980-523-10

Query Match 8.3%; Score 548; DB 4; Length 112;
Best Local Similarity 96.5%; Pred. No. 3.8e-32;
Matches 110; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

QY 153 DVPPAPKEXVQVILKPKGLGQTKNLIGYRLCLTSKTSFVKLNSEAAAVLQNMIR 212
DB 1 DTGCPAPKEXVQVILKPKGLGQTKNLIGYRLCLTSKTSFVKLNSEAAAVLQNMIR 59

QY 213 RGHSENFTEVRSATVSGEFMMQVDSVVAQNMHEITLQMRMSQSEFR 266
DB 60 RGHSENFTEVRSATVSGEFMMQVDSVVAQNMHEITLQMRMSQSEFR 112

RESULT 14
US-09-266-225D-18
Sequence 18, Application US/09266225D
Patent No. 6573364
GENERAL INFORMATION:
APPLICANT: Nandabalan, Krishan
APPLICANT: Kingmore, Stephen
APPLICANT: Tcherny, Vasilaz
TITLE OF INVENTION: Isolation and Characterization of Hermansky-Pudlak
TITLE OF INVENTION: Syndrome (HPS) Protein Complexes and HPS Protein-
TITLE OF INVENTION: Interacting Proteins
FILE REFERENCE: 15966-523
CURRENT APPLICATION NUMBER: US/09/266, 225D
CURRENT FILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 1164
TYPE: PRT
ORGANISM: Homo sapiens
US-09-266-225D-18

Query Match 4.4%; Score 289.5; DB 4; Length 1164;
Best Local Similarity 22.1%; Pred. No. 4.2e-12;
Matches 203; Conservative 71; Mismatches 347; Indels 287; Gaps 34;

QY 410 RRSASVSGSPDGGFISD-----EYGGSP---CDFSSFRSVTPDLSGHTPPARG 458
DB 32 RASPGVSTSSDGRKAKRSCTAKKARYEASTPKVNRQGRSEIASESESETVAPKXTK 91

QY 459 EBEELSNYICMGKGPSTLTAPNGHYTLGRGNGHCTPOTGLGTSPPALAGDEAASADLD 518
DB 92 TELER-----FQSSDLDLGRSLNDGSSDPR-----DIDQD 126

QY 519 NFRKRTSAGTSPTITHTQKTPSQSVASIEEYTEMMPAYPPGGSGGRLPGHSAFVP 578
DB 127 NR-----STSPSI-----YSQSVENDSDS---SSGLSQGPAPRHYPPPLFPF 166

QY 579 -----TRSYPEEGLEMHLEPRGGRH-----PDSSTLTHTDDGYMSPGVAVPYSGRK 627
DB 167 SQPPDSTPRQPEASEPRHPSVTPTGTHAPMPPSRHFGAPRGAAPPHPOLYPCGTGV 226

QY 628 GSGDYMPSPKSVSAPOQILNPI--RRHPQVDPNGYMMSSGGCSPDIDGSSSSSS 685
DB 227 LSGP--FMGPKGGGAASVGGPNGGKQHPPTPTISV-----SSGGA 266

QY 686 SNAVPGSTYGLMTNGVG-----HSHLPH-PKPPVSSGAKLPTGDMYN 734
DB 267 SGAPPT-----KPTTPVGGGULPAPPPANPHTNLPPLPPA-----LRPLNN--AS 313

QY 735 MSPVG-----DSNTSSPDCYTG---PEDQHKVLT--SYSLPNSFKHTQRPGEPE 782
DB 314 ASPPGIGAPLPGHLPSPHMGQIGGLPPGPKGPTLAPSPHSLP-----PASSGA 365

QY 783 GARHQLRLSTSSGRLLVATADSSSTSSDLSGGYCGARLEPSPHPP----- 833
DB 366 PAPMKEFPYSSS-----SSSAAASSSSSSSSSASPASQALSYHSPPTSLVS 420

QY 834 ---HCYLPPLPKV-----DTAQTNSHLAPTRLIS 862
DB 421 NQPKTQPSLPSQAVWSQGPPEPPPYGRLLANSNAHPGPPTGTGAQ-----S 469

QY 863 LQDPKASTLPARAEQOQOQOQPLHPE-----PKSPGYVNIERGSQSGYLSPVAFH 916
DB 470 TAPHPVSTHHHHQOQOQOQOQOQOQHNGNSGPPPGAFPH-----PLEGSSHH 520

QY 917 SSPSVRCPSQLOPAREEETGTEBYKMDLGPBRAAQOSTGVEMGRIGPAPGAASIC 976
DB 521 AHFYANSP-----LGLSRYPGPAPHL 544

QY 977 RPRRAVPSRGDTMYMNSCPROSYVDTSPPAPVGYADMRTGIAEBVSLPATAAASS 1036
DB 545 PPHSQV-----SYSQAGPNP-----PVSSSSNSS 570

QY 1037 SSAAASP-----TGPGA-----AELAAHSLLGPGPGMSAFTVNLSPNEN 1082
DB 571 SINSQSYPCSHSPSGQPGAGYPPPPVPTVTSATLS-----TVIATVASSPAGY 622

QY 1083 QSAKVTADPOGCRRRHSETSTSPSATRVNTVPFGAAGVAGGGGSSSEVYKHS 1142
DB 623 KTASPPGPPYGRKAPSPGAYTATPPGYKPSPPSFRGTGPGYRGTSPPGPGTFRKG 682

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RESULT 15
US-09-041-886-23
Sequence 23, Application US/09041886
Patent No. 6235872
GENERAL INFORMATION:
APPLICANT: Bredeeen, Dale E.
APPLICANT: Rabizadeh, Sharoz
TITLE OF INVENTION: Propeptotic Peptides, Dependence
TITLE OF INVENTION: Polypeptides and Methods of Use
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,886
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 2626
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 1185 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-041-886-23

Query Match 4.3%; Score 285; DB 3; Length 1185;
Best Local Similarity 22.1%; Pred. No. 8.8e-12;
Matches 203; Conservative 73; Mismatches 345; Indels 298; Gaps 35;

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Job time : 28 secs

Thu Jul 1 10:07:52 2004

us-09-903-063-5.rapb

Page 1

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 30, 2004, 14:04:42 ; Search time 54 Seconds
(without alignments)

6502.222 Million cell updates/sec

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Gapop 10.0 , Gapext 0.5

Searched: 1166195 seqs, 282705291 residues

Total number of hits satisfying chosen parameters: 1166195

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database: Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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7	6593	100.0	1242	10	US-09-436-184-5
8	6593	100.0	1242	13	US-10-085-027-1
9	6593	100.0	1242	16	US-10-694-874-1
10	6593	100.0	1242	15	US-10-334-143-10
11	5804.5	88.0	1231	16	US-10-694-874-3
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14	1925.5	29.2	1321	16	US-10-694-874-4
15	1612.5	24.5	1139	12	US-10-087-192-705

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17	590.5	9.0	1159	13	US-10-085-027-5	Sequence 5, Appl
18	586	8.9	113	10	US-09-922-126-123	Sequence 123, App
19	579	8.8	114	12	US-09-731-660A-2	Sequence 2, Appl
20	538	8.2	105	14	US-10-192-181-5	Sequence 5, Appl
21	298	4.5	2263	16	US-10-408-765A-2231	Sequence 2231, Ap
22	293.5	4.5	1592	12	US-10-231-956A-319	Sequence 319, App
23	287	4.4	1189	16	US-10-408-765A-2272	Sequence 2272, App
24	284	4.3	1744	13	US-10-108-605-25	Sequence 25, Appl
25	274.5	4.2	1211	12	US-10-363-616-366	Sequence 366, App
26	273.5	4.1	1633	14	US-10-029-386-33090	Sequence 33090, A
27	273.5	4.1	2303	12	US-10-267-802-371	Sequence 371, App
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31	267	4.0	1665	15	US-10-295-027-60	Sequence 60, Appl
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34	266.5	4.0	2092	12	US-10-042-865-79	Sequence 79, Appl
35	266.5	4.0	2092	12	US-10-377-035-18	Sequence 18, Appl
36	266.5	4.0	2092	16	US-10-408-765A-1967	Sequence 1967, Ap
37	266.5	4.0	2137	12	US-10-042-865-81	Sequence 81, Appl
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39	266.5	4.0	2429	12	US-10-377-035-17	Sequence 17, Appl
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42	266.5	4.0	2545	12	US-10-042-865-12	Sequence 12, Appl
43	263.5	4.0	2766	14	US-09-964-586-62	Sequence 62, Appl
44	263.5	4.0	841	12	US-10-029-386-32014	Sequence 32014, A
45	263.5	4.0	3149	16	US-10-408-765A-2326	Sequence 2326, Ap

ALIGNMENTS

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Sequence 5, Appl	
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RESULT 2
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; Sequence 5, Application US/09859604
; Patent No. US2002010559A1
; GENERAL INFORMATION:
; APPLICANT: Mandes, Jack R.
; APPLICANT: de la Monte, Suzanne M
; APPLICANT: Deutch, Alan H
; APPLICANT: Chhabari, Hosen A
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 CIP
; CURRENT APPLICATION NUMBER: US/09/859,604
; PRIOR FILING DATE: 2001-05-17
; PRIOR FILING DATE: 1999-11-08
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-859-604-5
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
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; Sequence 5, Application US/09903063
; Patent No. US20020114810A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV3
; CURRENT APPLICATION NUMBER: US/09/903,063
; PRIOR FILING DATE: 2001-10-11
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-063-5

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Query Match      100.0%; Score 6593; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      241 DDSVYAQNMHEITLPAAMANDERRPRKSSQSSNCSPISVPLRRHLNPPPSQVLT 300
Db      241 DDSVYAQNMHEITLPAAMANDERRPRKSSQSSNCSPISVPLRRHLNPPPSQVLT 300
Qy      301 RRSRTESITATSPASMVGKPGSFVRASDDEGIMSRPASVDGSPVSPSTRTHAHR 360
Db      301 RRSRTESITATSPASMVGKPGSFVRASDDEGIMSRPASVDGSPVSPSTRTHAHR 360
Qy      361 GSARLHPPLNRSRSTPMSRCSPEATS PVLSSTSTSGASTDCLFPRSSASVSGSP 420
Db      361 GSARLHPPLNRSRSTPMSRCSPEATS PVLSSTSTSGASTDCLFPRSSASVSGSP 420
Qy      421 SDGFTSSDEYGSFCDPRSSFRSVTPSLGHTPPARCEELSNYICMGKGPSTLTPN 480
Db      421 SDGFTSSDEYGSFCDPRSSFRSVTPSLGHTPPARCEELSNYICMGKGPSTLTPN 480
Qy      481 GHYILSRGNGHRCPTGTGLCTSPALAGDEAASADLNNRFRKTHSAGTPTTHOKTP 540
Db      481 GHYILSRGNGHRCPTGTGLCTSPALAGDEAASADLNNRFRKTHSAGTPTTHOKTP 540
Qy      541 SSSVASTIEEYTEMMPAYPPGSGSGRLGHRHSAFVPTRSYPEEGLEMBLEBRGHR 600
Db      541 SSSVASTIEEYTEMMPAYPPGSGSGRLGHRHSAFVPTRSYPEEGLEMBLEBRGHR 600
Qy      601 PDSSTLHTDDGYMPSPGVAIVPSGKSGDYMSPKSVAPQOIIINPBRHQVDPN 660
Db      601 PDSSTLHTDDGYMPSPGVAIVPSGKSGDYMSPKSVAPQOIIINPBRHQVDPN 660
Qy      661 GYMMSPSGCSPDGGGSSSSSSNAVPSGTSYKLTMTNGVGHSHVLPHPKPVES 720
Db      661 GYMMSPSGCSPDGGGSSSSSSNAVPSGTSYKLTMTNGVGHSHVLPHPKPVES 720
Qy      721 SGKLLPCTGDYNNMNSPVGDSNTSPSDCYYPEDPOHKVLSYSLPRFKTQRPGE 780
Db      721 SGKLLPCTGDYNNMNSPVGDSNTSPSDCYYPEDPOHKVLSYSLPRFKTQRPGE 780
Qy      781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEPSLPHPHQVLOPH 840
Db      781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEPSLPHPHQVLOPH 840
Qy      841 LPRKVDTAOQNSRLAPTRLSLGDPAKSTLPRAEQQOQOQPLHPPEKSPGEVNI 900
Db      841 LPRKVDTAOQNSRLAPTRLSLGDPAKSTLPRAEQQOQOQPLHPPEKSPGEVNI 900
Qy      901 FGSDQSGYLGPVAFHSPVRCPSQLOPAPREETGEYMKDLOPGRRAAOESTGV 960
Db      901 FGSDQSGYLGPVAFHSPVRCPSQLOPAPREETGEYMKDLOPGRRAAOESTGV 960
Qy      961 EMGRGAPPGAASTCRPTAVPSRSDYMTQMCSFQSGYVDTSPAAPVYADMRTGIA 1020
Db      961 EMGRGAPPGAASTCRPTAVPSRSDYMTQMCSFQSGYVDTSPAAPVYADMRTGIA 1020
Qy      1021 AEEVSLPRATMAAASSSSAASPTGPOGAELAAHSSLLGPGGMSAFTRVNLSPN 1080
Db      1021 AEEVSLPRATMAAASSSSAASPTGPOGAELAAHSSLLGPGGMSAFTRVNLSPN 1080
Qy      1081 RNQSAKYIRADPOGCRHRHSETSTSPSATRVGNITVPFGAAGVGGGSSSSSDVXR 1140
Db      1081 RNQSAKYIRADPOGCRHRHSETSTSPSATRVGNITVPFGAAGVGGGSSSSSDVXR 1140
Qy      1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVDVDFKQCEPCTEPQ 1200
Db      1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVDVDFKQCEPCTEPQ 1200

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Thu Jul 1 10:07:52 2004

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Page 4

QY 1201 PPPPPHOPPLGSGSSSTRSSEEDLSAYASISFOKQPEDRQ 1242
Db 1201 PPPPPHOPPLGSGSSSTRSSEEDLSAYASISFOKQPEDRQ 1242

RESULT 4
US-09-903-216-5
; Sequence 5, Application US/09903216
; Patent No. US2002011481A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV2
; CURRENT APPLICATION NUMBER: US/09/903,216
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-216-5

Query Match 100.0%; Score 6593; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPSDGFDVRKYGVLARKPKSMHKKFFVLRAASEAGPARLEYENKKWRKKSAP 60
Db 1 MASPPSDGFDVRKYGVLARKPKSMHKKFFVLRAASEAGPARLEYENKKWRKKSAP 60
QY 61 KRSIPLESQFNINRKADSKXKHLVALYTRDEHFALAADEADODSMYQALQLAHNRAGH 120
Db 61 KRSIPLESQFNINRKADSKXKHLVALYTRDEHFALAADEADODSMYQALQLAHNRAGH 120
QY 121 HGGAAALGGGGGGSSSSSGCGEAGEDLSYGDVPPGPAFKKVVYLLKPKLQGTKULI 180
Db 121 HGGAAALGGGGGGSSSSSGCGEAGEDLSYGDVPPGPAFKKVVYLLKPKLQGTKULI 180
QY 181 GYRLCLTSTKTSIFVLNSEEAAVVLQLMNIRRCGSENFETIEYGRSAVTGPGEFMMQV 240
Db 181 GYRLCLTSTKTSIFVLNSEEAAVVLQLMNIRRCGSENFETIEYGRSAVTGPGEFMMQV 240
QY 241 DDSVVAQNNEHTILLEMRAMSDFFPRRSKSSSSSNCSNFIYPLRRHIANPPSQVGLT 300
Db 241 DDSVVAQNNEHTILLEMRAMSDFFPRRSKSSSSSNCSNFIYPLRRHIANPPSQVGLT 300
QY 301 RRSRTESITATSPASVWGKPGSFYRABSDGEGTMSRABSDGSPVSPSTRTTAHHR 360
Db 301 RRSRTESITATSPASVWGKPGSFYRABSDGEGTMSRABSDGSPVSPSTRTTAHHR 360
QY 361 GSRARLHPINHSRSTIMPARSRCSPSATSPVSLSSSSTGSGHSTDCLEPPRRSASVSGSP 420
Db 361 GSRARLHPINHSRSTIMPARSRCSPSATSPVSLSSSSTGSGHSTDCLEPPRRSASVSGSP 420
QY 421 SDGGFTSSDEYSSPCDFRSFRSVTPDLSLGTTPRAGGEELSNYICMGKGPSTLTAPN 480
Db 421 SDGGFTSSDEYSSPCDFRSFRSVTPDLSLGTTPRAGGEELSNYICMGKGPSTLTAPN 480
QY 481 GHYILSRGNGHRCCTPGLGTSPALAGDEAASADLDNRFEKRTISAQTSPTITHOXTP 540
Db 481 GHYILSRGNGHRCCTPGLGTSPALAGDEAASADLDNRFEKRTISAQTSPTITHOXTP 540
QY 541 SSSSVASIEYTEMMPAYPPGGSGGRLGHRHSAFVPRVRYDEGLMHPERGGGHR 600
Db 541 SSSSVASIEYTEMMPAYPPGGSGGRLGHRHSAFVPRVRYDEGLMHPERGGGHR 600

QY 601 PDSSTLTDDGYMPSBGVAVPVSGRKSGSDYMPMSPKSYASFOQIINPIRRAPQVDPN 660
Db 601 PDSSTLTDDGYMPSBGVAVPVSGRKSGSDYMPMSPKSYASFOQIINPIRRAPQVDPN 660
QY 661 GYMMSPSGGSPDYGGSSSSSSSSNVAVSGTSGYGLMTNGVGHSHSYLPHPKPVES 720
Db 661 GYMMSPSGGSPDYGGSSSSSSSSNVAVSGTSGYGLMTNGVGHSHSYLPHPKPVES 720
QY 721 SGGLLPCTGDYMMSPVGBDNTSPSDCYGGEDEPOHKVLYSYLPRSFKTORPGE 780
Db 721 SGGLLPCTGDYMMSPVGBDNTSPSDCYGGEDEPOHKVLYSYLPRSFKTORPGE 780
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Db 781 EEGARHQLRLSTSSGRLYAATPADSSSTSSDSJGGYCGARLEPLPHHLYOPH 840
QY 841 LPRKVDTAAGTNSRLAPRTSLIGDPKASTLPRABEQOQOQPLHPPEKSGEYVNI 900
Db 841 LPRKVDTAAGTNSRLAPRTSLIGDPKASTLPRABEQOQOQPLHPPEKSGEYVNI 900
QY 901 FGSDQGYLSGVAFHSSPSVRCPQOLQAPAREETGTEBYMMDLGPGRRAAQESTGV 960
Db 901 FGSDQGYLSGVAFHSSPSVRCPQOLQAPAREETGTEBYMMDLGPGRRAAQESTGV 960
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Db 961 EMGRLGAPPGAASTICPTRAVPSRGGDYMTQMCGCRQSYDTSRAAPSVADMRTGA 1020
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Db 1081 RNSAKYIRADPOGCRRHSSSTFSSPTKATRTGNTVPRFAGAAVGGGSSSSSDVVR 1140
QY 1141 HSSAFENWVLRPGELEGAPKEPAKLGAAAGLENGLNTDLDLVDFKQCPQECTPEPQ 1200
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QY 1201 PPPPPHOPPLGSGSSSTRSSEEDLSAYASISFOKQPEDRQ 1242
Db 1201 PPPPPHOPPLGSGSSSTRSSEEDLSAYASISFOKQPEDRQ 1242

RESULT 5

US-09-903-199-5
; Sequence 5, Application US/09903199
; Patent No. US20020122802A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV4
; CURRENT APPLICATION NUMBER: US/09/903,199
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-199-5

Query Match 100.0%; Score 6593; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPSDGFDVRKYGVLARKPKSMHKKFFVLRAASEAGPARLEYENKKWRKKSAP 60

1 MASPESDGFSDVRKGVYLRPKSMHRRFVLRASAEAGPARELYEENKMKRHSAP 60
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1081 RNQSAKVIADPOGCRHRHSESTFSTPSATRVGNVTPFGAGAAVGGGGSSSSSDVVR 1140
1081 RNQSAKVIADPOGCRHRHSESTFSTPSATRVGNVTPFGAGAAVGGGGSSSSSDVVR 1140

1081 RNQSAKVIADPOGCRHRHSESTFSTPSATRVGNVTPFGAGAAVGGGGSSSSSDVVR 1140
1141 HSSASFENVMLRPGELGAPKEPAKLGGAAGLNGNLYIDLDVXFKQCPQCTBERPQ 1200
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1201 PPPPPHPQPLGSGSSSTRSSSEDLGAYASISFOKPEDRQ 1242
RESULT 6
US-09-903-023-5
Sequence 5, Application US/09903023
Patent No. US20020146421A1
GENERAL INFORMATION:
Applicant: Wands, Jack R.
Applicant: de la Monte, Suzanne M.
Applicant: Ince, Nedim
Applicant: Carlson, Rolf I.
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
FILE REFERENCE: 21486-012 DIV1
CURRENT APPLICATION NUMBER: US/09/903,023
CURRENT FILING DATE: 2001-10-11
PRIOR APPLICATION NUMBER: 09/436,184
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 1242
TYPE: PRT
ORGANISM: Homo sapiens
US-09-903-023-5
Query Match 100.0%; Score 6593; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 MASPESDGFSDVRKGVYLRPKSMHRRFVLRASAEAGPARELYEENKMKRHSAP 60
1 MASPESDGFSDVRKGVYLRPKSMHRRFVLRASAEAGPARELYEENKMKRHSAP 60
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QY 541 SSSVASIEEYTEMMPAYPPGGSGGRLPGHRHSAFVPTSSYEBGLEHMLERGGHHR 600
 Db 541 SSSVASIEEYTEMMPAYPPGGSGGRLPGHRHSAFVPTSSYEBGLEHMLERGGHHR 600
 QY 601 PDSSTLTDDGYNMSPGVAPVPSGRKSGDYMPMPSKSYAPQOIIINPFRHPQVDEN 660
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 Db 661 GYMMSPSGGCSPDIGGGPSSSSSSNAVPSGTSYGKLMNMGVGHSHVLPHPKPVES 720
 QY 721 SGGKLLPCTGDYMMNSPVGDNTSSPSDCYGPEDPOHKPVLSYSLPRSFKKTORPGE 780
 Db 721 SGGKLLPCTGDYMMNSPVGDNTSSPSDCYGPEDPOHKPVLSYSLPRSFKKTORPGE 780
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 Db 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGGYCGARLEBLSLPHPHOYLQPH 840
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 Db 841 LPRKVDTAQTNLSRLAPTRLISLGDPRKASTLPRAREQOQOQOPLHPPEKSGEYVNE 900
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 Db 901 FGSDQSGYLSGPVAFHSSPSVRCPSQLQAPAREEETGTEEYMMMDLGPGRRAAMOSTGV 960
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 Db 1081 RNQAKVIRADPOGCRRHSESTSTSPSATRVNTYVPGAAGAAVGGGGSSSSSEDEVKR 1140
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 Db 1201 PPPPPPHQPLSGGSSSTRSSSEDLASVASISFQKQPEDRQ 1242

RESULT 7
 US-09-436-184-5
 ; Sequence 5, Application US/09436184
 ; Publication No. US20030031670A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wands, Jack R.
 ; APPLICANT: de la Monte, Suzanne M.
 ; APPLICANT: Ince, Nedim
 ; APPLICANT: Carlson, Rolf I.
 ; TITLE OF INVENTION: DIAGNOSTICS AND TREATMENT OF MALIGNANT NEOPLASMS
 ; FILE REFERENCE: R.I. Hosp. - Malignant Neoplasms
 ; CURRENT APPLICATION NUMBER: US/09/436,184
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 5
 ; LENGTH: 1242
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-436-184-5

Query Match 100.0%; Score 6593; DB 10; Length 1242;
 Best Local Similarity 100.0%; Pred. No. 0;

Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MASPPESDGFSDVRKVYLRPKSMKRFVTLRAASAGARLETYENKMTKHSAP 60
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 Db 661 GYMMSPSGGCSPDIGGGPSSSSSSNAVPSGTSYGKLMNMGVGHSHVLPHPKPVES 720
 QY 721 SGGKLLPCTGDYMMNSPVGDNTSSPSDCYGPEDPOHKPVLSYSLPRSFKKTORPGE 780
 Db 721 SGGKLLPCTGDYMMNSPVGDNTSSPSDCYGPEDPOHKPVLSYSLPRSFKKTORPGE 780
 QY 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGGYCGARLEBLSLPHPHOYLQPH 840
 Db 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGGYCGARLEBLSLPHPHOYLQPH 840
 QY 841 LPRKVDTAQTNLSRLAPTRLISLGDPRKASTLPRAREQOQOQOPLHPPEKSGEYVNE 900
 Db 841 LPRKVDTAQTNLSRLAPTRLISLGDPRKASTLPRAREQOQOQOPLHPPEKSGEYVNE 900
 QY 901 FGSDQSGYLSGPVAFHSSPSVRCPSQLQAPAREEETGTEEYMMMDLGPGRRAAMOSTGV 960
 Db 901 FGSDQSGYLSGPVAFHSSPSVRCPSQLQAPAREEETGTEEYMMMDLGPGRRAAMOSTGV 960
 QY 961 EMGRLGPAPPGAAICRPTRAVPSRSDYMTQMCSRCRQSYVDTSPAAPVSYADMRTGIA 1020
 Db 961 EMGRLGPAPPGAAICRPTRAVPSRSDYMTQMCSRCRQSYVDTSPAAPVSYADMRTGIA 1020
 QY 1021 AEEVSLPRATMAAASSSAAASPTGQGAELAAHSSLGGPQPGGMAFTRVNLSPN 1080
 Db 1021 AEEVSLPRATMAAASSSAAASPTGQGAELAAHSSLGGPQPGGMAFTRVNLSPN 1080

Thu Jul 1 10:07:52 2004

us-09-903-063-5.rapb

Page 7

RESULT 8
US-10-085-027-1
; Sequence 1, Application US/10085027
; Publication No. US20020132759A1
; GENERAL INFORMATION:
; APPLICANT: YAZAKI, YOSHIO
; APPLICANT: ASANO, TOMOICHIRO
; APPLICANT: KUBO, HIDEO
; APPLICANT: KANDA, AKIRA
; TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE
; FILE REFERENCE: 4895-0019-0PCT
; CURRENT APPLICATION NUMBER: US/10/085,027
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: 09/508,691
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: PCT/JP98/04293
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP9-263719
; PRIOR FILING DATE: 1997-09-29
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-085-027-1

Query Match 100.0%; Score 6593; DB 13; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASPPEDGSDVRYKVGILKPKSMKRFVLAASAPAGPARLEYENKKRHSAP 60
DB 1 MASPPEDGSDVRYKVGILKPKSMKRFVLAASAPAGPARLEYENKKRHSAP 60
QY 61 KRSIPLESFENINRADSKKHLVALYTRDEHFAIADSEADSWYQALLQJHNAKCH 120
DB 61 KRSIPLESFENINRADSKKHLVALYTRDEHFAIADSEADSWYQALLQJHNAKCH 120
QY 121 HDGAAALGAGGGGSGSGSGGLGEGEDLSYGDVPPAPKEMWYILKPKGICOTKNI 180
DB 121 HDGAAALGAGGGGSGSGSGGLGEGEDLSYGDVPPAPKEMWYILKPKGICOTKNI 180
QY 181 GIYRLCTSKTISFVKLNSEAAAVVLQMNIRRCGHSNFFLEVGSAVATGGEFWMQV 240
DB 181 GIYRLCTSKTISFVKLNSEAAAVVLQMNIRRCGHSNFFLEVGSAVATGGEFWMQV 240
QY 241 DSDVVAQNMHEITIEARMSDEFPRSKSOSSNCGNPSVPLRHHLNPPSOVGLT 300
DB 241 DSDVVAQNMHEITIEARMSDEFPRSKSOSSNCGNPSVPLRHHLNPPSOVGLT 300
QY 301 RRSRTEBITATSPASWVGKRGSEFRVASSDGEGTMRPAPVSGSPVSPNTNTHARRH 360
DB 301 RRSRTEBITATSPASWVGKRGSEFRVASSDGEGTMRPAPVSGSPVSPNTNTHARRH 360
QY 361 GSARLHPLNHSRBITPMPASGSPSATSPIVSLSSSTSGHGSNDCLFPRSSASVSGSP 420
DB 361 GSARLHPLNHSRBITPMPASGSPSATSPIVSLSSSTSGHGSNDCLFPRSSASVSGSP 420

QY 421 SDGFISSDEYSSPCDFRSSFRRSVTPDSLQHTPPARAGEELSNYICMGKGSTLTAEN 480
DB 421 SDGFISSDEYSSPCDFRSSFRRSVTPDSLQHTPPARAGEELSNYICMGKGSTLTAEN 480
QY 481 GHYILSRGNGHRCCTPGUGLCTSPALAGDEAASAAIDLNRRKXTHSAGSPITTHQKP 540
DB 481 GHYILSRGNGHRCCTPGUGLCTSPALAGDEAASAAIDLNRRKXTHSAGSPITTHQKP 540
QY 541 SOSVYASIEEYTEMWPAVPCGSGGRLPGHRSFAFVPTRSYPRGLEMPLERGGHHR 600
DB 541 SOSVYASIEEYTEMWPAVPCGSGGRLPGHRSFAFVPTRSYPRGLEMPLERGGHHR 600
QY 601 PDSSTLHTDDGYMMSPEVAVPVPGGRKSGGYMMSPKSVAPAOIINPIRRHQRVDEN 660
DB 601 PDSSTLHTDDGYMMSPEVAVPVPGGRKSGGYMMSPKSVAPAOIINPIRRHQRVDEN 660
QY 661 GYMMMSPEGCGSPDIGGPFSSSSSSNAVPSGTSYGLMTNGVGGHSHVLPHPKPVES 720
DB 661 GYMMMSPEGCGSPDIGGPFSSSSSSNAVPSGTSYGLMTNGVGGHSHVLPHPKPVES 720
QY 721 SGGKLLPCTGDYMMMSPVGDSNTSSPDDCTYGPEDPOHKPYLSYSLPRGFKTORPGE 780
DB 721 SGGKLLPCTGDYMMMSPVGDSNTSSPDDCTYGPEDPOHKPYLSYSLPRGFKTORPGE 780
QY 781 EGGARHQLRLSTSGRLLYAATADDSSSTSSDGLGGYCGALLESPLPHPHQVLOPH 840
DB 781 EGGARHQLRLSTSGRLLYAATADDSSSTSSDGLGGYCGALLESPLPHPHQVLOPH 840
QY 841 LPRKYDTAQTNSRLARPTRLSLGDPKASTLPARBEQOQOQPLHPPEKSPGEYVNI 900
DB 841 LPRKYDTAQTNSRLARPTRLSLGDPKASTLPARBEQOQOQPLHPPEKSPGEYVNI 900
QY 901 FGSDSGYLSGPVAFHSSPSVRCPSOLOPARBEETGTEYMKDLDGGRANAQESIGV 960
DB 901 FGSDSGYLSGPVAFHSSPSVRCPSOLOPARBEETGTEYMKDLDGGRANAQESIGV 960
QY 961 EMGRIGPAPGNAISCREPTRAVPSSRGDYMOMSCPSQYVDTSPAAPSVYADMTGIA 1020
DB 961 EMGRIGPAPGNAISCREPTRAVPSSRGDYMOMSCPSQYVDTSPAAPSVYADMTGIA 1020
QY 1021 AEVSLPRTAAASSSSSASASPTGOGAELAAHSLGPGPGMSAFTVNTLSPN 1080
DB 1021 AEVSLPRTAAASSSSSASASPTGOGAELAAHSLGPGPGMSAFTVNTLSPN 1080
QY 1081 RNSAKVIRADPOGCRRRHSSETFSSSTPSATRVGNTVPFGAGAAVGGGSSSSSEDEVK 1140
DB 1081 RNSAKVIRADPOGCRRRHSSETFSSSTPSATRVGNTVPFGAGAAVGGGSSSSSEDEVK 1140
QY 1141 HSSASFENVMLRPGELGAPKEPAKLCGAAGLENGLNLYIDLVDVKPQOCECTPEPQ 1200
DB 1141 HSSASFENVMLRPGELGAPKEPAKLCGAAGLENGLNLYIDLVDVKPQOCECTPEPQ 1200
QY 1201 PPPPPPPHQLSGGSSSTRSSSEDLASVYASISFOKQPEDRQ 1242
DB 1201 PPPPPPPHQLSGGSSSTRSSSEDLASVYASISFOKQPEDRQ 1242

RESULT 9
US-10-694-874-1
; Sequence 1, Application US/10694874
; Publication No. US20040097713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, YU
; APPLICANT: WU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (Ser1101/Ser1149)
; FILE REFERENCE: CST-209
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIOR FILING DATE: 2002-10-30


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; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-694-874-1

Query Match      100.0%; Score 6593; DB 16; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGFSDVRYKVGILRKPKSMHKRFVFLRAASEAGPARLEYENKMKRHSAP 60
DB 1 MASPPESDGFSDVRYKVGILRKPKSMHKRFVFLRAASEAGPARLEYENKMKRHSAP 60
QY 61 KRSTPLESCFNINRKADSKNKHVALYTRDEHFAIAADSEABQDSWYQALLQINRAKH 120
DB 61 KRSTPLESCFNINRKADSKNKHVALYTRDEHFAIAADSEABQDSWYQALLQINRAKH 120
QY 121 HDGAALAGAGGGGSCSSSGLGEAGEEDLSYGDVPPGPAFKEMVQVILKPKGLGOTKLI 180
DB 121 HDGAALAGAGGGGSCSSSGLGEAGEEDLSYGDVPPGPAFKEMVQVILKPKGLGOTKLI 180
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DB 181 GIYRLCLTSKTIISFVKLNSEAAAVVLQLMNIRCGHSENFPIEYGRSAVTGPGEFMVQ 240
QY 241 DDSVVAQNMHETILEAMRAMSDEPRPRSKSSNSCNPISVPLRRHILNPPPSOYGLT 300
DB 241 DDSVVAQNMHETILEAMRAMSDEPRPRSKSSNSCNPISVPLRRHILNPPPSOYGLT 300
QY 301 RRSRTESITATSPASWVGKPGSFVRASDDEGTMSPASVDGSPVPSITNRTHAHRH 360
DB 301 RRSRTESITATSPASWVGKPGSFVRASDDEGTMSPASVDGSPVPSITNRTHAHRH 360
QY 361 GSARLHPILNHSRSLPMBASRCSPSATSPVLSSTSGHSTSDCCFPRSSASVSGSP 420
DB 361 GSARLHPILNHSRSLPMBASRCSPSATSPVLSSTSGHSTSDCCFPRSSASVSGSP 420
QY 421 SDGPFISSEDEYSSPCDFRSPRSFVTPDLSGHTPPARGEBELSNVLCWGKPKSTLTAPN 480
DB 421 SDGPFISSEDEYSSPCDFRSPRSFVTPDLSGHTPPARGEBELSNVLCWGKPKSTLTAPN 480
QY 481 GHYIISRCGNHRCITPGTGLTSPALADZASAADLNRPRKTHSAGTSPITTHQKTP 540
DB 481 GHYIISRCGNHRCITPGTGLTSPALADZASAADLNRPRKTHSAGTSPITTHQKTP 540
QY 541 SOSVASIIEEYTEMMPAYPPGGSGGRLPGHRHSAFVTRSYPEEGLEMLERGGHHR 600
DB 541 SOSVASIIEEYTEMMPAYPPGGSGGRLPGHRHSAFVTRSYPEEGLEMLERGGHHR 600
QY 601 PDSSTLHDDDGIMPMSPGVAPVPSGRKSGDYMPSPKVSAPQOIINPIRHPQRYDEN 660
DB 601 PDSSTLHDDDGIMPMSPGVAPVPSGRKSGDYMPSPKVSAPQOIINPIRHPQRYDEN 660
QY 661 GYMMSPSGGGCPDGGGPPSSSSSNAPSGTSGKMTNGVGGHSHVLPHPKPPES 720
DB 661 GYMMSPSGGGCPDGGGPPSSSSSNAPSGTSGKMTNGVGGHSHVLPHPKPPES 720
QY 721 SGGKLLPCTGDYMNNSPVGDSNTSPSDCYCYGPEDPQHKPVLASYSLPRSKHTQRPGE 780
DB 721 SGGKLLPCTGDYMNNSPVGDSNTSPSDCYCYGPEDPQHKPVLASYSLPRSKHTQRPGE 780
QY 781 EGGARHQLRLSTSSGRLLYAATADSSSTSSDBLGGYCGARLEPILPHPHQVOPH 840
DB 781 EGGARHQLRLSTSSGRLLYAATADSSSTSSDBLGGYCGARLEPILPHPHQVOPH 840
QY 841 LPRKVDTAQNTSRLARPTLSLGPKASTLPRAEEQQOQQOQLIHPEEPKSPSEYNI 900
DB 841 LPRKVDTAQNTSRLARPTLSLGPKASTLPRAEEQQOQQOQLIHPEEPKSPSEYNI 900
QY 901 FGSDDSGYLSCGVAVAHSSPSVACPSQLOPAPREESTGTBEYMKDLDGGRRAAQESTGV 960
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DB 901 FGSDDSGYLSCGVAVAHSSPSVACPSQLOPAPREESTGTBEYMKDLDGGRRAAQESTGV 960
QY 961 EMGRLGAPAPGAASICRPTRAVPSRGDYMTWMSCPQSYYDTSPAPVSYADNRGIA 1020
DB 961 EMGRLGAPAPGAASICRPTRAVPSRGDYMTWMSCPQSYYDTSPAPVSYADNRGIA 1020
QY 1021 AEEVSLPRTAATAASSSSAASPTGPGAAELAAHSSLGGPQPGMSATRYNLSPN 1080
DB 1021 AEEVSLPRTAATAASSSSAASPTGPGAAELAAHSSLGGPQPGMSATRYNLSPN 1080
QY 1081 RQOSAKVIRADPOGCRRRHSETFSTPSATREVENTVPFGAAGVGGGSSSEDYKR 1140
DB 1081 RQOSAKVIRADPOGCRRRHSETFSTPSATREVENTVPFGAAGVGGGSSSEDYKR 1140
QY 1141 HSSASFEWNLPRGELGAPKPEAPLCAAGGLENGLVYIDLIVKDFKQCPQECTPERQ 1200
DB 1141 HSSASFEWNLPRGELGAPKPEAPLCAAGGLENGLVYIDLIVKDFKQCPQECTPERQ 1200
QY 1201 PPPPPPPQPLGSGSSSTRRSSDLSAVASISFOKQEDRQ 1242
DB 1201 PPPPPPPQPLGSGSSSTRRSSDLSAVASISFOKQEDRQ 1242

RESULT 10
US-10-334-143-10
; Sequence 10, Application US/10334143
; Publication No. US20040009549A1
; GENERAL INFORMATION:
; APPLICANT: GRIGORIEV, IGOR VYACHESLAVOVICH
; TITLE OF INVENTION: METHOD FOR DETECTING REMOTE HOMOLOGUES AND NOVEL
; FILE REFERENCE: 038602/1543
; CURRENT FILING DATE: 2002-12-31
; PRIOR FILING DATE: 2001-12-31
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-334-143-10

Query Match      100.0%; Score 6593; DB 15; Length 1316;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGFSDVRYKVGILRKPKSMHKRFVFLRAASEAGPARLEYENKMKRHSAP 60
DB 75 MASPPESDGFSDVRYKVGILRKPKSMHKRFVFLRAASEAGPARLEYENKMKRHSAP 134
QY 61 KRSTPLESCFNINRKADSKNKHVALYTRDEHFAIAADSEABQDSWYQALLQINRAKH 120
DB 135 KRSTPLESCFNINRKADSKNKHVALYTRDEHFAIAADSEABQDSWYQALLQINRAKH 194
QY 121 HDGAALAGAGGGGSCSSSGLGEAGEEDLSYGDVPPGPAFKEMVQVILKPKGLGOTKLI 180
DB 121 HDGAALAGAGGGGSCSSSGLGEAGEEDLSYGDVPPGPAFKEMVQVILKPKGLGOTKLI 254
QY 181 GIYRLCLTSKTIISFVKLNSEAAAVVLQLMNIRCGHSENFPIEYGRSAVTGPGEFMVQ 240
DB 181 GIYRLCLTSKTIISFVKLNSEAAAVVLQLMNIRCGHSENFPIEYGRSAVTGPGEFMVQ 314
QY 241 DDSVVAQNMHETILEAMRAMSDEPRPRSKSSNSCNPISVPLRRHILNPPPSOYGLT 300
DB 241 DDSVVAQNMHETILEAMRAMSDEPRPRSKSSNSCNPISVPLRRHILNPPPSOYGLT 374
QY 301 RRSRTESITATSPASWVGKPGSFVRASDDEGTMSPASVDGSPVPSITNRTHAHRH 360
DB 375 RRSRTESITATSPASWVGKPGSFVRASDDEGTMSPASVDGSPVPSITNRTHAHRH 434
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QY 361 GSARLHPPLNHSRSIPMPASRCPSPATSPVLSSSSTSGHSTSDCLFRRSSASVSGSP 420
DB 435 GSARLHPPLNHSRSIPMPASRCPSPATSPVLSSSSTSGHSTSDCLFRRSSASVSGSP 494
QY 421 SDGGFISDEYSSPCDFRSPRSVTPSLGHTPARKEEELSNVICMGKGSSTLTAEN 480
DB 495 SDGGFISDEYSSPCDFRSPRSVTPSLGHTPARKEEELSNVICMGKGSSTLTAEN 554
QY 481 GHYILSRGNGHRCCTGTGLTSPALAGDEAASADLNRPRKRTHSAGTSPITTHQXTP 540
DB 555 GHYILSRGNGHRCCTGTGLTSPALAGDEAASADLNRPRKRTHSAGTSPITTHQXTP 614
QY 541 SOSSTVASTIEEYTEMMPAIPPGGSGGRLPGHRHSAFVTRTSYPERGLEMHLERRGGHR 600
DB 615 SOSSTVASTIEEYTEMMPAIPPGGSGGRLPGHRHSAFVTRTSYPERGLEMHLERRGGHR 674
QY 601 PDSSTLHTDDGYMSPGVAPVPSGRKSGDYMPSPKSVAPQOIINPIRRHFQRYDPN 660
DB 675 PDSSTLHTDDGYMSPGVAPVPSGRKSGDYMPSPKSVAPQOIINPIRRHFQRYDPN 734
QY 661 GYMMMSPSGGCSPPDIGGSPSSSSSSNAVPSCSTYGLKMTNKGHSHVLPHPKPYES 720
DB 735 GYMMMSPSGGCSPPDIGGSPSSSSSSNAVPSCSTYGLKMTNKGHSHVLPHPKPYES 794
QY 721 SGGKLLPCTGDMNMSPVGDSNTSSPDCYCYGPEDPQHKPVLSTYSLPRSFKHQRPGE 780
DB 795 SGGKLLPCTGDMNMSPVGDSNTSSPDCYCYGPEDPQHKPVLSTYSLPRSFKHQRPGE 854
QY 781 BEGAHQHLRLSTSSGRLLYAATADSSSSSTSDDLGGCYCGARLEPLPHPHQVLOPH 840
DB 855 BEGAHQHLRLSTSSGRLLYAATADSSSSSTSDDLGGCYCGARLEPLPHPHQVLOPH 914
QY 841 LPRKVTDAQNTSRLAPTRLISGPKASTLPRAEQQOQOQPLHPBEPSPEYVITE 900
DB 915 LPRKVTDAQNTSRLAPTRLISGPKASTLPRAEQQOQOQPLHPBEPSPEYVITE 974
QY 901 FGSDDSGYLSGPFVAFHSBVCPSQLOPAPREBEETGEYWKMDLGGRRBAWQESTGV 960
DB 975 FGSDDSGYLSGPFVAFHSBVCPSQLOPAPREBEETGEYWKMDLGGRRBAWQESTGV 1034
QY 961 ENGRIGRAPRGAASICRPTRAVPSRSGDYMTMOMSCFQSYVTTSPPAPVSYADMRTGIA 1020
DB 1035 ENGRIGRAPRGAASICRPTRAVPSRSGDYMTMOMSCFQSYVTTSPPAPVSYADMRTGIA 1094
QY 1021 AEEVSLPRATMAAASSSSASASPTGPOGAELAHSSLLGGPOPGGMSAFTRVNLSPN 1080
DB 1095 AEEVSLPRATMAAASSSSASASPTGPOGAELAHSSLLGGPOPGGMSAFTRVNLSPN 1154
QY 1081 ENQSAKVRADPOGCRRRHSSTFSSSTPSATRVGNTVPPGAGAAVGGGGSSSSSEYKR 1140
DB 1155 ENQSAKVRADPOGCRRRHSSTFSSSTPSATRVGNTVPPGAGAAVGGGGSSSSSEYKR 1214
QY 1141 HSSASFENVWLPGLGAPKPAKLCGAAGLENGLVNIDLDVKDPRKQOECTPBPQ 1200
DB 1215 HSSASFENVWLPGLGAPKPAKLCGAAGLENGLVNIDLDVKDPRKQOECTPBPQ 1274
QY 1201 PPPPPPHOPLGSSSSSTRSSSEDL SAVASTISFOKQEPEDRO 1242
DB 1275 PPPPPPHOPLGSSSSSTRSSSEDL SAVASTISFOKQEPEDRO 1316

RESULT 11
US-10-694-874-3
; Sequence 3, Application US/10694874
; Publication No. US2004009713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, Yu
; APPLICANT: MU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (Ser1101/Ser1149)
; TITLE OF INVENTION: THEREOF

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; FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIOR FILING DATE: 2002-10-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1231
; TYPE: PR1
; ORGANISM: Mus musculus
US-10-694-874-3

Query Match      88.0%; Score 5804.5; DB 16; Length 1231;
Best Local Similarity 89.2%; Pired. No. 0;
Matches 1111; Conservative 35; Mismatches 82; Indels 17; Gaps 10;

QY 1 MASPPSDGFSVDKRYGYLRKPKMKRFFVLRAAEAGAPARLEYENEKKMRKHSAP 60
DB 1 MASPPSDGFSVDKRYGYLRKPKMKRFFVLRAAEAGAPARLEYENEKKMRKHSAP 60
QY 61 KRSIPLESCFNINRKADSKNKLVALYTSDEHPAIADEADQSWYQALLQHNRAKH 120
DB 61 KRSIPLESCFNINRKADSKNKLVALYTSDEHPAIADEADQSWYQALLQHNRAKH 120
QY 121 HDGAALGAGGGGSGSGSGGAGEGDLVYGDVPPGPAFKEWQVTLKPKGLGOTKLI 180
DB 121 HDGAALGAGGGGSGSGSGGAGEGDLVYGDVPPGPAFKEWQVTLKPKGLGOTKLI 175
QY 121 HDGAALGAGGGGSGSGSGGAGEGDLVYGDVPPGPAFKEWQVTLKPKGLGOTKLI 175
DB 121 HDGAALGAGGGGSGSGSGGAGEGDLVYGDVPPGPAFKEWQVTLKPKGLGOTKLI 175
QY 181 GYRLCLTSTKTIISFVKLNSBAAVLQLMNIRCGHSENFLEVRSAVTEGPEWQV 240
DB 176 GYRLCLTSTKTIISFVKLNSBAAVLQLMNIRCGHSENFLEVRSAVTEGPEWQV 235
QY 241 DSDVAVQNHETLLEMRANSDERPRSKSQSSNSNLSVLEPRHHNNPPSGVGLT 300
DB 236 DSDVAVQNHETLLEMRANSDERPRSKSQSSNSNLSVLEPRHHNNPPSGVGLT 295
QY 301 RRSRTESITATSPASNVGKPGSFVRASDGEGTSPASVDSFVPSPTNRTHARR 360
DB 296 RRSRTESITATSPASNVGKPGSFVRASDGEGTSPASVDSFVPSPTNRTHARR 355
QY 361 GSARLHPPLNHSRSIPMPASRCPSPATSPVLSSSSTSGHSTSDCLFRRSSASVSGSP 420
DB 356 GSARLHPPLNHSRSIPMPASRCPSPATSPVLSSSSTSGHSTSDCLFRRSSASVSGSP 415
QY 421 SDGGFISDEYSSPCDFRSPRSVTPSLGHTPARKEEELSNVICMGKGSSTLTAEN 480
DB 416 SDGGFISDEYSSPCDFRSPRSVTPSLGHTPARKEEELSNVICMGKGSSTLTAEN 475
QY 481 GHYILSRGNGHRCCTGTGLTSPALAGDEAASADLNRPRKRTHSAGTSPITTHQXTP 540
DB 476 GHYILSRGNGHRCCTGTGLTSPALAGDEAASADLNRPRKRTHSAGTSPITTHQXTP 535
QY 541 SOSSTVASTIEEYTEMMPAIPPGGSGGRLPGHRHSAFVTRTSYPERGLEMHLERRGGHR 600
DB 536 SOSSTVASTIEEYTEMMPAIPPGGSGGRLPGHRHSAFVTRTSYPERGLEMHLERRGGHR 595
QY 600 RPSSTLHTDDGYMSPGVAPVPSGRKSGDYMPSPKSVAPQOIINPIRRHFQRYDPN 659
DB 596 RPSSTLHTDDGYMSPGVAPVPSGRKSGDYMPSPKSVAPQOIINPIRRHFQRYDPN 655
QY 660 NGYMMMSPSGGCSPPDIGGSPSSSSSSNAVPSCSTYGLKMTNKGHSHVLPHPKPYE 729
DB 656 NGYMMMSPSGGCSPPDIGGSPSSSSSSNAVPSCSTYGLKMTNKGHSHVLPHPKPYE 714
QY 720 SGGKLLPCTGDMNMSPVGDSNTSSPDCYCYGPEDPQHKPVLSTYSLPRSFKHQRPGE 779
DB 715 SGGKLLPCTGDMNMSPVGDSNTSSPDCYCYGPEDPQHKPVLSTYSLPRSFKHQRPGE 774
QY 780 BEGAHQHLRLSTSSGRLLYAATADSSSSSTSDDLGGCYCGARLEPLPHPHQVLOPH 839
DB 775 BEGAHQHLRLSTSSGRLLYAATADSSSSSTSDDLGGCYCGARLEPLPHPHQVLOPH 834

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QY 840 HLEPKVDTAAQTNRSLRPTRLSTIGDBKASTLTPRAEQOQOQOQPLHPEPKSPGEYVNI 899
DB 835 HLEPKVDTAAQTNRSLRPTRLSTIGDBKASTLTPVREOQOQOQSLHPEPKSPGEYVNI 894
QY 900 EFGSDQSGYLGPVAFHSSPSVRCPSQLCPAPREETGTEYMKMDLPGRRRAWQESTG 959
DB 895 EFGSDQSGYLGPVAFHSSPSVRCPSQLCPAPREETGTEYMKMDLPGRRRAWQESTG 953
QY 960 VEMRLGPAPPGASISCPTRPAVPSHGDVYTMQMSCPROSYDTSPAAVSYADMTGT 1019
DB 954 VELGRICPAPPGASISCPTRPAVPSHGDVYTMQMSCPROSYDTSPAAVSYADMTGT 1013
QY 1020 AAEVSLPRTMAAASSSASASAPTPQGA-AELAHSSILGCPQPGGMSAFTRVNS 1078
DB 1014 AAEVSLPRTMAAASSSASASAPTPQGA-AELAHSSILGCPQPGGMSAFTRVNS 1072
QY 1079 PNRQSAKVIRADQGGRRHSSSTSPSATRVGNTVPPGAAGAVG-GGGSSSSSD 1137
DB 1073 PNRQSAKVIRADQGGRRHSSSTSPSATRVGNTVPPGAAGAVG-GGGSSSSSD 1129
QY 1138 VKHSSASFENWMLRPEGLGAPKEPAKLGGAAGLENGLNTYIDLIVDFKQCPQECTP 1197
DB 1130 VKHSSASFENWMLRPEGLGAPKEPAKLGGAAGLENGLNTYIDLIVDFKQCPQECTP 1186
QY 1198 EPQPPPPPHQPLGSGESSSTRSSDLSAYASISFQKQPEDRQ 1242
DB 1187 QOQSLPPPPPHQPLGSGESSSTRSSDLSAYASISFQKQPEDRQ 1231

RESULT 12

US-10-694-874-2
; Sequence 2, Application US/10694874
; Publication No. US20040097713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, Yu
; APPLICANT: WU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (Ser1101/Ser1149)
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIORITY DATE: 2002-10-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1324
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-694-874-2

Query Match 30.0%; Score 1976.5; DB 16; Length 1324;
Best Local Similarity 39.3%; Pred. No. 3.8e-116;
Matches 546; Conservative 144; Mismatches 386; Indels 315; Gaps 59;

QY 13 VRKVGYLRRKPKSMKEFEVLR-----ASEAG-----PARLEYENKMKHKSARK 61
DB 31 VRKVGYLRRKPKSMKEFEVLR-----ASEAG-----PARLEYENKMKHKSARK 90
QY 62 RSLPLESCFNINKRADSKNHLVALYTRDEHFAIADSEAEODSWYQALQLHNRAKHH 121
DB 91 RVILDDCCNLINKRADSKNHLVALYTRDEHFAIADSEAEODSWYQALQLHNRAKHH 144
QY 122 DGAAG-----AGGGGGSCGS-----SGLGERGELSYGDVPPG-PAKETWQYILKP 170
DB 145 EGRRAADAPPAAPPAASCSASLPAGAVGSAAGADSYGLVAPATAAREWQYNLKP 204
QY 171 KGLGQTNLIGIYELCLTSTKTSIFVKLNSEAAAVVQLXNIRCGHSENFETEVRSAN 230
DB 205 KGLGQTNLIGIYELCLTSTKTSIFVKLNSEAAAVVQLXNIRCGHSENFETEVRSAN 264

QY 231 TGPGEFMQVDDSVVAQNMHETILEAMRMD--EFRRSKSGS--SNCSNPISVP--LR 285
DB 265 TGPGEFMQVDDSVVAQNMHETILEAMRMD--EFRRSKSGS--SNCSNPISVP--LR 324
QY 286 RHLLNPPPSQVGLTRRSRTESITPASPANVGPGGFRFASADGSG-----TMS 337
DB 325 HHLLNPPPSQVGLTRRSRTESITPASPANVGPGGFRFASADGSG-----TMS 380
QY 338 RPASVDSGPVPSSTNR---TAHRRGSR-----LHP---LHRSRITMPASRSP 384
DB 381 RPASVDSGPVPSSTNR---TAHRRGSR-----LHP---LHRSRITMPASRSP 440
QY 385 SATSPVSLSSSGSTSGHS-----TSDDLFRRSASVSGSPSGGFTSS 428
DB 441 SATSPVSLSSSGSTSGHS-----TSDDLFRRSASVSGSPSGGFTSS 500
QY 429 DEYSSPCDFRS--SFRSVTPDSLHTPPAR---GEEELSNYICMGKGPSTLTAPNGHY 483
DB 501 DEYSSPCDFRS--SFRSVTPDSLHTPPAR---GEEELSNYICMGKGPSTLTAPNGHY 548
QY 484 ILSRGNHRCPTPGTGLTSPALGDELAASADLNRPRKRTHTAGTSPITTHQKTPSQS 543
DB 549 ILSRGNHRCPTPGTGLTSPALGDELAASADLNRPRKRTHTAGTSPITTHQKTPSQS 590
QY 544 SVASIEEYTEMMAVPPPGSGGGRU---PGRHSAFVPTRSYPEE--GLEMHLERRGG 597
DB 591 SVASIEEYTEMMAVPPPGSGGGRU---PGRHSAFVPTRSYPEE--GLEMHLERRGG 638
QY 598 HHRPDSSTLHTDDGYPMSPGVAVPYSGRKC--SGDYPMSPKVSAPQOITNIRRHQ 655
DB 639 HHRPDSSTLHTDDGYPMSPGVAVPYSGRKC--SGDYPMSPKVSAPQOITNIRRHQ 698
QY 656 R-----YDPNGYMMSPGCGSPIDIGGSSSSSSNVPSCYSGKMTGVGSHSHV 710
DB 699 R-----YDPNGYMMSPGCGSPIDIGGSSSSSSNVPSCYSGKMTGVGSHSHV 745
QY 711 LHPKRPVSSGGKLLPCTGTYMMSPVGDSNTSSPSDCYTGPEDPQHKVP-----LSY 765
DB 750 LHPKRPVSSGGKLLPCTGTYMMSPVGDSNTSSPSDCYTGPEDPQHKVP-----LSY 804
QY 766 SLPRSFKTPORPGEPEGARHQHLRLTSSGRLLLYAATADSSS---STSDSLSGGCG 822
DB 805 SLPRSFKTPORPGEPEGARHQHLRLTSSGRLLLYAATADSSS---STSDSLSGGCG 857
QY 823 ARLEPSLPHPHOYLQPHLR--KYDTAAQTNLSRLAPTRLST--GDPKASTLPPAREQOQ 879
DB 858 ARLEPSLPHPHOYLQPHLR--KYDTAAQTNLSRLAPTRLST--GDPKASTLPPAREQOQ 906
QY 880 QOQPLHPEPKSPGEYVNIERFSD-----QSGYLGPVAFHSSPSVRCPSQL 927
DB 907 QOQPLHPEPKSPGEYVNIERFSD-----QSGYLGPVAFHSSPSVRCPSQL 962
QY 928 --QAPREETGTEYMKMDLPGRRRAWQESTGVENGRLG----- 966
DB 963 --QAPREETGTEYMKMDLPGRRRAWQESTGVENGRLG----- 1022
QY 967 -----PAPRAASICR--PTRAVPSRSGDYTMQMSCPROSYDTSPAAVSYAD 1014
DB 1023 ASPSSLOPPPPPPGELLYLPPASAVATQGGAASSLSS-----DTGDCG--DTTE 1074
QY 1015 MRTGIAAEVSLPRTMAAASSSASASAPTPQGA-AELAHSSILGCPQPGGMSAFTR 1074
DB 1075 MAFGVAA---TPQGLIAPPRBAARVAPF--SGVKRLSLMBQV-----SGVEAFLO 1122
QY 1075 VMLSPNRQSAKVIRADQGGRRHSSSTSPSATRVGNTVPPGAAGAVG-GGGSSSSSD 1134
DB 1123 VMLSPNRQSAKVIRADQGGRRHSSSTSPSATRVGNTVPPGAAGAVG-GGGSSSSSD 1165
QY 1135 SEDVGRHSSASFENWMLRPEGLG-----APKEP 1163
DB 1166 SEDVGRHSSASFENWMLRPEGLG-----APKEP 1225
QY 1164 AKLGAAG-----GLENGLNTIDLVYKQCPQECTPBPQPPPPPHQPL 1211

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Db      1226 GGLVCCPGGSGSPMRRTSAGCQNGKLTAIID-VAREBOLP-----PQPPPPPLP-QP- 1278
Qy      1212 GSGGSSSTRS 1222
Db      1279 --GDKSSWGRT 1287

RESULT 13
US-10-087-192-708
; Sequence 708, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 708
; LENGTH: 1278
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(1278)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-087-192-708

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Query Match      29.5%; Score 1942.5; DB 12; Length 1278;
Beet Local Similarity 39.6%; Pred. No. 5.1e-114;
Matches 545; Conservative 141; Mismatches 371; Indels 321; Gaps 61;

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Qy      29 FFVLR-----ASEAG-----PARLEYENKKRKSKSPKSIPLSCFNINKRAD 77
Db      1 FVLRGPAGGDEATAGGSAAPQPRLEYESEKKMRGAKPKVILDDCLINIKRAD 60
Qy      78 SSKKRLVALYTRDDEFAIADSEAFQDSYQALLDLHRAKHGHDGAALG---AGGGG 133
Db      61 AHKXLLALYTXDEFFAFAAENEOEQEWMYRALTLVLS-----EGRAAADAPPAAAPA 114
Qy      134 GSCGSG-----SGLEAGEDELSDYDVPFG--PAFKEVMQVILKPKGLGQTNLIGIYRLC 186
Db      115 ASGSAISLPGALGSGAGAGAEIDSYGLVAPATAAYREWQVNLKPKGLGQSNLIGIYRLC 174
Qy      187 LTKTISFYKLNSEAAVVLQMLNTRCGHSENFPIFVGSRAVTPGGEFMQVDDSYVA 246
Db      175 LSARITGFYKLNCEQPSYTLQMLNTRCGHSDSPFFIEVGRSAVTGPELMMQADDSYVA 234
Qy      247 QMHEFTILEAMRAMGD--EPRFRSKQSS--SNCSNPISVP--LRHHNLNPPPOVGLTR 301
Db      235 QNHHTIIEAMKALKELEFRFRSKSQSSGSSATHPISVPGARRHHNLVNLPPSGOTGLVR 294
Qy      302 RSRTESITATSPFASNVGKPGSFVRVASSDGE-----TMSRPASVDSGSPVSPSTNR 353
Db      295 RSRTISLAATPPRA-----KCSGCRVRTASEGCGAAGAAAGAPVAVASPLSPGVR 350
Qy      354 THAHRH-----RGS-ARLHP-----PLNHSRSIEMASRCSPPANTSPEVSSSTSGH 400
Db      351 APLSHSHLSGGCCGRKVALLPAGALQHSRSMSVVAASPPATSPGSLSS--SGH 408
Qy      401 GSTS-----DCLFPRRSASVSGSPSDGGLISSDEYSGSPCDFFRS-- 440
Db      409 GSGSVPPPGPHPLPHLHGPQGRPSGASASGSDGQFMGLDEYSGSPGLNRF 468
Qy      441 SFRSVTPPSLGHTRPAR---GHEEUSNTYICMGKGRKPSLTLPANNGHYILSRGNGHRCRTGP 497

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Db      469 SHNSNTSEIAETPPADGGGGGSPFYGM-----TMDRP-----LSHCGSYR---- 511
Qy      498 TGLTSPALAGDEAASADLDNRFRKRTSAGTSPTITHTOKTPSQSSVASIEBYETEMPA 557
Db      512 -----RVSGD---AAQDLDGRGLRKRTYSL-TTP--ARQRPVPQPSASLDEYTLMEAT 558
Qy      558 YPRGGGSGRL-----FGHRSAFVPTRSYPE--GLEMHELRGGRHRRDSTTLTDDG 611
Db      559 F---SGSAGRLCPSCPA--SSPKYAVHPYEDYDIEI-----GSHRSSNLLADDG 606
Qy      612 YMEPSGVAVPVPSGRKO--SGDYPMSPKSVSAPOQIINP-----IRRHQRYDPNGYMM 664
Db      607 YMEPTPGALAGSGSGCRSDDDYMPSPASVSAPKQILQBRAAAAAAVPSAGPAP 666
Qy      665 MSFSGGCSPTICGGPSSSSSSNAVPSGTSYGLTNNGVGHSHVLPHPKPVESGCK 724
Db      667 TSAAGRTFPASGGGYKASSPAES--PEDSGYMMWCGS-----KLSMEHADGK 713
Qy      725 ILPCTGDMYMMSPVGDNTSSPSDCYXGPEDPQHKPV-----LSYXSLPRFKHTORPGE 779
Db      714 LLP--NGDYLVNPSDAVTTGTPDPFSAALHPGGEPLRGVCCYSLRPSYKAPTCG-- 771
Qy      780 PERGARHQHLRSTSSGRLIYAATDSSS--STSSDSIGGYCGARLEPSLPHPHOV 836
Db      772 ---GDSQVYLMSSPVGRILIEERLEPQATPCPSQAASAFAAG-----PTQP--DHPV 820
Qy      837 LQPLRP--KYDUAQNTSRLARPTLSL--GDPKASTLPARARQQQQQQLHPPEPKP 893
Db      821 PSFVBSGGAPPEGLGQGRHAVTPRLSLGLP--SLBSMHE--YPL--PPEPKSP 870
Qy      894 GEYVNIIEFGSDQGYLSGP-----VAFHSSPVRCPSOLQAPAREBETG----- 938
Db      871 GEYINIDFG--EPGARLSPAPRLASASSLSLSSPSSSGTGTSSDRQSPFL 929
Qy      939 EYMKXDLGPRRAAAGESTGVEMGRLG-----PAP 969
Db      930 SDYNNIDFSSPKPKPGAPRGHPVSGDLGLSEASSPYPLCPRPSPASSSLQPPPP 989
Qy      970 PGAASICR--PTRAVESRQDYTMQMSCPRQSYVDTSPPAAYVADMETGIAEVSUP 1027
Db      990 PARGELYRLPASAVALTAQPGAASSLSS-----DTGNG--DYTEMAFGVA---TTP 1038
Qy      1028 RATMAAASSSASASAPTPGQGAELAAHSSLIGQGCGKMSAFTRVNLSPRNOASAKY 1087
Db      1039 QPIAAPPKPBAVAASPT--SGYKRLSLMEQV-----SGVAFLOASQPPPHRGAVY 1089
Qy      1088 IRADPOGCRRHSSSETFSSSTPSATRYGNTVPFGAAGAVGGGSSSSSDVKHSSASPE 1147
Db      1090 IRADPOGCRRHSSSETFSSSTTVTPV-----SPFPAINPKRHNASV 1132
Qy      1148 NVMLRPEGLG-----APKEPAKLCGAAG----- 1171
Db      1133 NVSLRKSSEBGVGVGGGDEPTSPROLQAPAPLAPQGRPMTPGQPGGLVGGPGSGSP 1192
Qy      1172 -----GLENGANYIDLVLVDKQCPQSCPEPQPPPPPHOPLGSGSSSTRS 1222
Db      1193 MRRTSAGRQNGNTAIID-VAREBOLP-----PQPPPPPLP-QP---GDKSSWGRT 1241

RESULT 14
US-10-694-874-4
; Sequence 4, Application US/10694874
; Publication No. US20040097713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, Yu
; APPLICANT: WU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (Ser1101/Ser1149)
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874

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us-09-903-063-5.rapb

Page 13

Db 1 KHGKRFVLRGFTGDEASAGSPQPRLEVESEKWRKAGARVIALDCCIN 60
Qy 72 INKRADSKMHLVATYRDEHFAIADSEADSWYQALLQHLNRAKHGHDGAALGAG 131
Db 61 INKRADAKKYLIALTTXDEYFAVALENEQOEQWTRALTLVSESRSECG-----GGST 115
Qy 132 GGGSCSGS-----SELGAGEDLSYGVPPGPA-FKEYVOYILKPKGLGQTKNLIGYR 184
Db 116 TGSSCSASLPVGLGSGAGAGCCDDNYGLVTPATAVREVWYVNLKPKGSGOSKMLTGYR 175
Qy 185 LCLTSKTSFVKNLSAAVVLQMLNIRCGHSENFPIEVGRSAVTGSGEMMOVDSDV 244
Db 176 LCLSAITIGVKNLNCQPSVTLQMLNIRCGHSDSFFILEVGRSAVTGSGELMQADSDV 235
Qy 245 VAQNMETTLLEAMRAMSDEFPRRSKQSSSNCSNPISVPLRRHLLNPPSQVGLTRSR 304
Db 236 VAQNIHETILEAKKALKEFRVPAHQDSGHGSGSYLP----- 274
Qy 305 TESTATSPASVVGKRGSPFRVASSDGEOTMRPASVVGSPVSTNTHARRHSAR 364
Db 275 -----PGS-----HPH----- 280
Qy 365 LHPPLNHSRSTPMPARCSPTSATSPVLSSSSTSGHSTSDCLFPRSSASVSGSPDDG 424
Db 281 LPHPLHH-----PQGRPS-----GSASASGSPSDPG 308
Qy 425 FISSDEYSGSPCDFR--SSFRSVTPDLSLHTPPARGEE--ELSNYICMGKGPSTITAPN 480
Db 309 FMSLDEYSGSPDLRFSSHSRSTPESIAETPPARDGSGGELGYMSDRP----- 359
Qy 481 GHYILRGNGHRCPTGTGLGTSPALAGDEAASADLNRFRKTHSAGTSPITHXTP 540
Db 360 -----LHCGRPYRVGSG-----AQDLDRGLRKRTYSL--TTP--AQGRQV 398
Qy 541 SGGSSVASIEEYTEMMPAYPPGGSGGRL-PGH-RHSAFVPTRSYPPE--GLENHPLERRG 596
Db 399 PCPSASALDEYTLMRATF--SGSSGRLCPSPASSPKVAYNPEDYGDIER----- 448
Qy 597 GHRPPOSTLHTDDGYMPSPGVAPVPSGRKG--SGDYMPSPKSYAPPOIINPIRRAP 654
Db 449 GSHKSSSNIGADDGYMPTPGAALBSGSPNSCKSDYMPSPSYSAKQILCP--RLA 506
Qy 655 QRYVDPNGYMMSPSGGSP--DIQGGPSSSSSSNAVPSGTSGYKLTNGVGGHSHVLP 712
Db 507 AALPPSGAIVAPSPGVGRTPFVNGGYKASPSAESPEBDSGYMRMCGS----- 556
Qy 713 HRPXPVSSSGKLLPCTGDMNMSPVDSNTSSPSD---CYGPEDPQHKPVLASYSLP 768
Db 557 --KLSMENPDPKLLP--NGDYLNMSPEAGTAGTPDPSAALRGSGBLKGIPOHCYSLP 613
Qy 769 RSFKHTORPBP--EEGARHQHLRLSTSGRLYYAATADDSSSTSSDSLGGYCGARLE 826
Db 614 RSYX-----APCGSGDNDQYVLMSPVGRILEEERLEPOATP-----GAGTGA-AG 660
Qy 827 PSLPHPHOVLQPHL-PRKYDTAAQ-----TNSRLARPTLRLSGLDPKASTLPRAREOQQQ 881
Db 661 GSHTOPHHSVAPSSMRPSAIGRPEGLQRCRAVRPTRLSL--EGLQTLP-----SMCE 713
Qy 882 QPLHPPPEKSPGSEYVNIFFGSDOSGYLGFVAFHSSPSVRCPSQL-----QPA----- 930
Db 714 YPL--PTEPKSPGXYINIDFG--EAGTRLSPPAPPLASASSSLSLASPSASLSGSGT 769
Qy 931 -----PABEETGTEENKMDLG-----PGRRAWQESTGYEMGRLG----- 966
Db 770 PGTSSDSRQRSLFDSDYMLDPSSPKSPKSTRSG--DTVSGMDGLSPASSPYPLPPR 827
Qy 967 -----PAPGAASICR--PTRAVPSSRGDYTMQMSCFROSVDTSPPAPVSYADM 1015
Db 828 PSTSPSSLOQLPAPAGDLYLPPASAAITSGPTAGSSMS-----SEPDNDGYTEM 879
Qy 1016 RTGIAAEVSLPRATMAASSSASASPTGPOGAELAAHSSLSLGGPQGGMSATRY 1075
Db 880 AFGVAA--TPPOPIVAPPKPEGARVASF--SGIKRLSLMDQV-----SGVEAFLOV 927

Qy 1076 NLSERNQSAKVIRADPOGCRRRHSETFSSSTPSATRVGNTVPFGAGAAVGGGGSSSS 1135
Db 928 SQPDPHRAKAVIRADPOGCRRRHSETFSSSTTTVTPV-----SPSFA 970
Qy 1136 EDVRRSSASRENTVLRPGE-----LGA-----PKRPA 1164
Db 971 HNSRRHNSASVENVSLKSSBSGSTLGGDEBPPTSPOQAQPLVAVPPVQARFNNQOPG 1030
Qy 1165 KLCGAG-----GLENGLNYIDLVLVDFKQCPQECTPEPQPPPPHQPPLG 1212
Db 1031 ALICPGSSSPMERETSVGFQNGNLNYAIDV-----RGEQSLAQSQOPQ-----G 1077
Qy 1213 SGESSSTRSSEDJ-----SAYASISF 1234
Db 1078 DKNSWSRTRSLGGLGTIVGSGAGSVCGGPGTGALPSASTYASIDF 1123

Search completed: June 30, 2004, 14:11:25
Job time : 59 secs